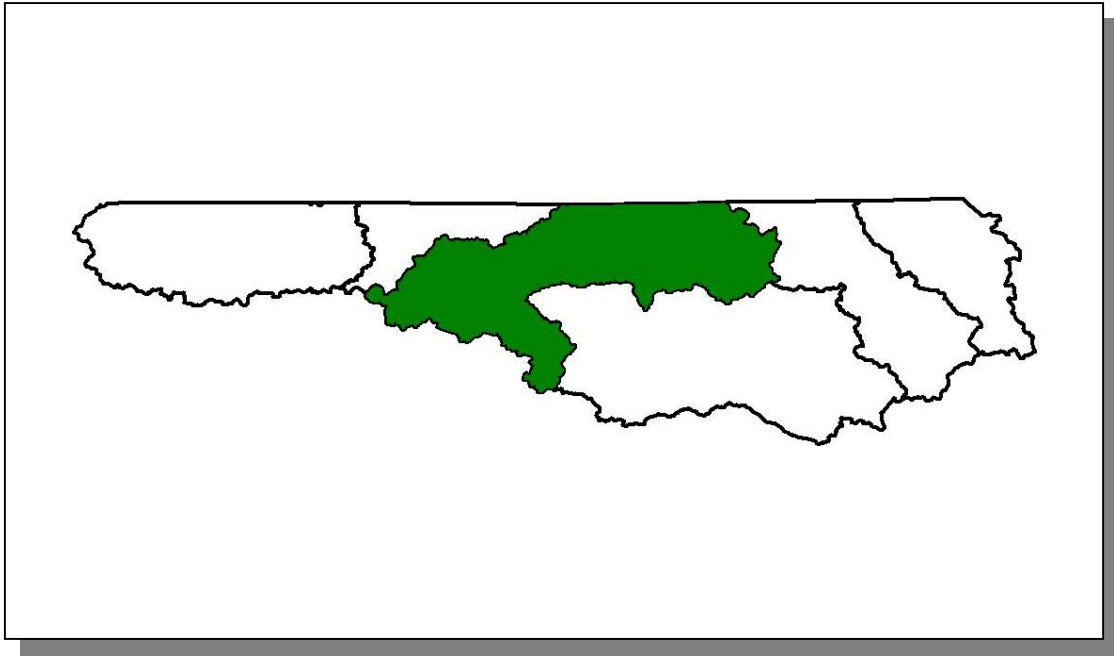
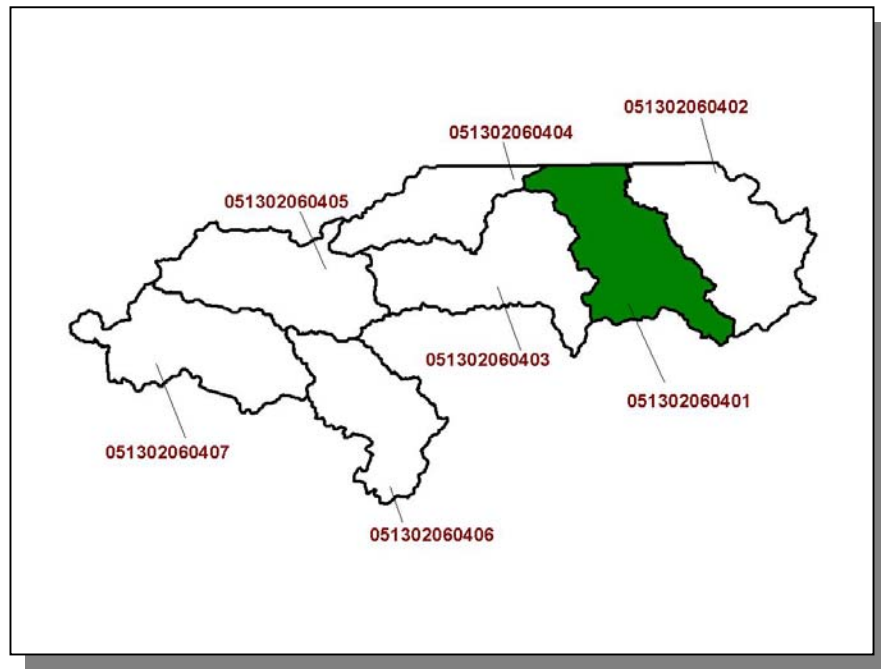


**4.2.C. 0513020604.**

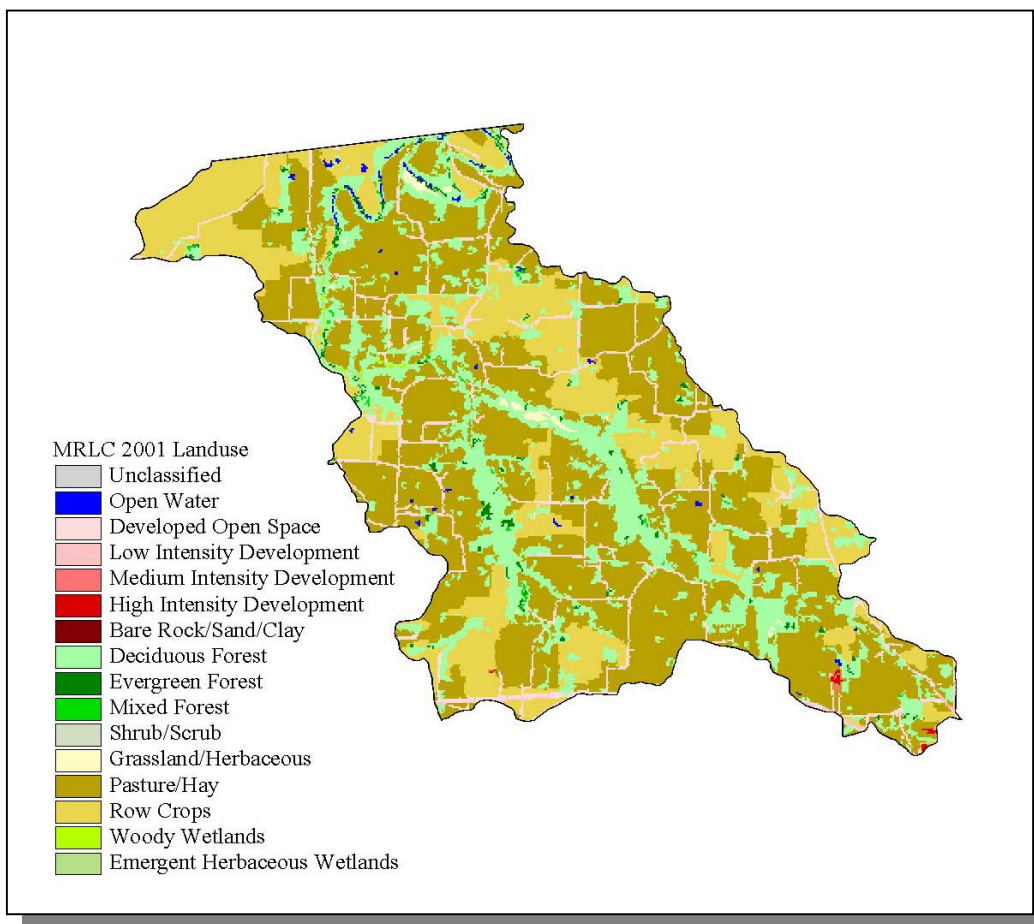


**Figure 4-42. Location of Subwatershed 0513020604.** All Red River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

**4.2.C.i. 051302060401 (Red River).**

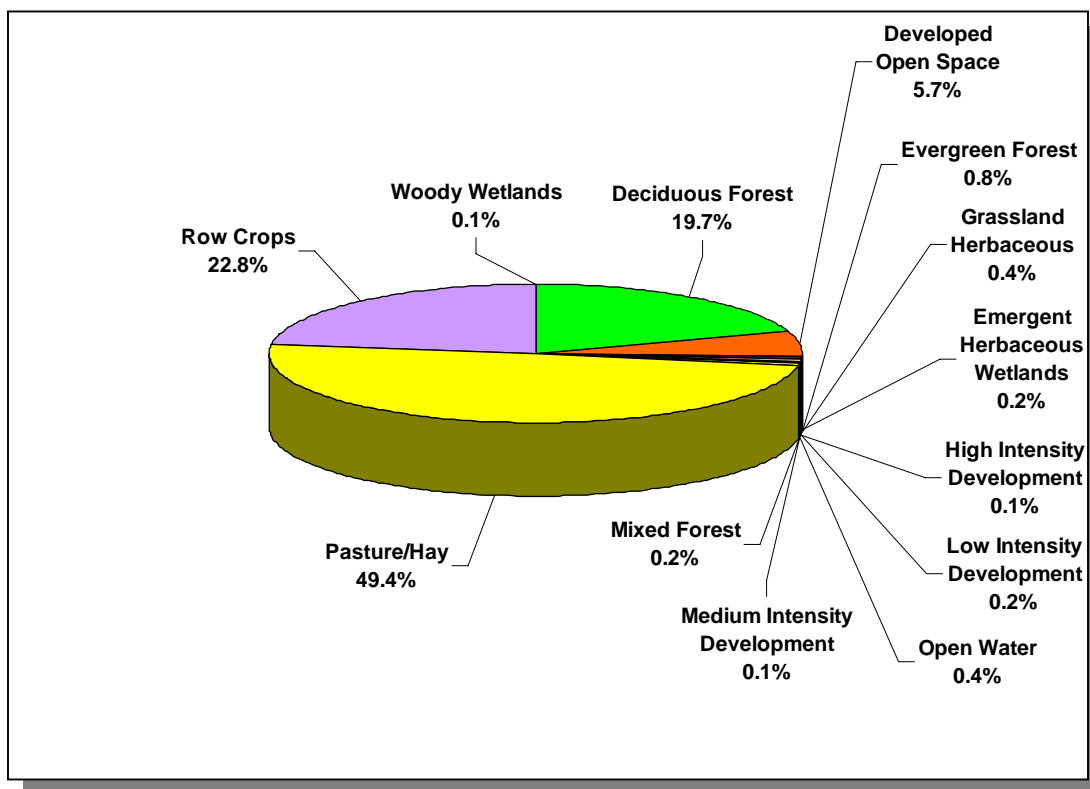


**Figure 4-43. Location of Subwatershed 051302060401.** All Red River HUC-12 subwatershed boundaries in Tennessee are shown for reference.



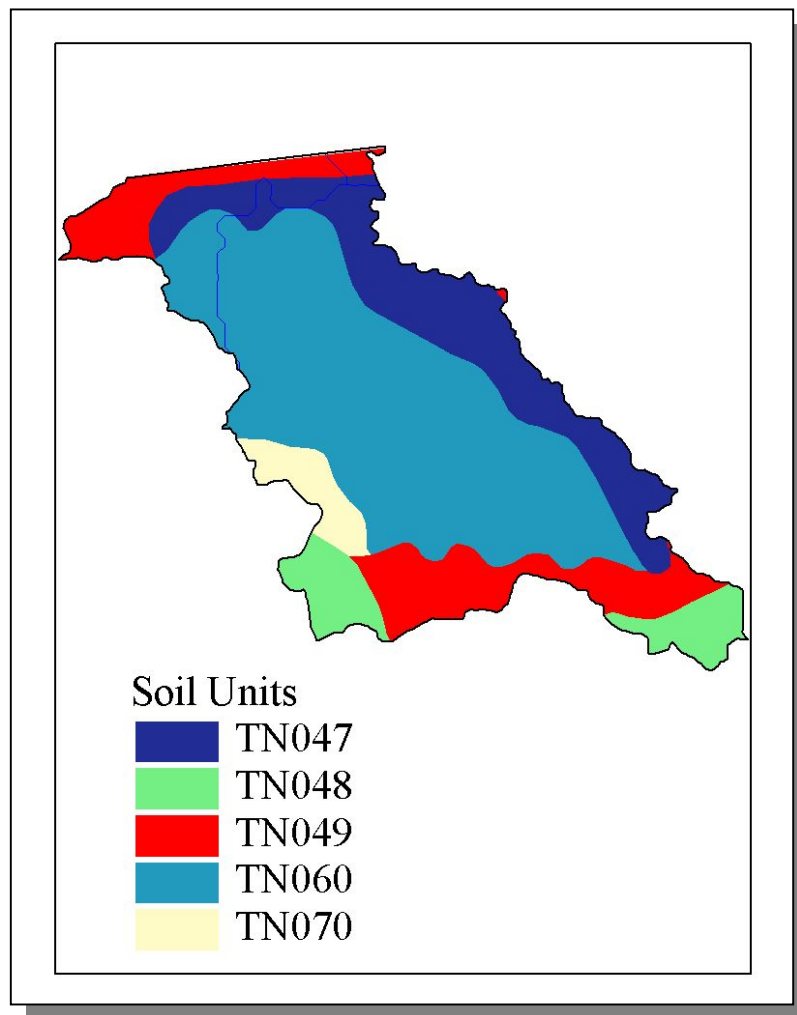
**Figure 4-44. Illustration of Land Use Distribution in Subwatershed 051302060401.**

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**Figure 4-45. Land Use Distribution in Subwatershed 051302060401.** More information is provided in Appendix IV.

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**Figure 4-46. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060401.**

| STATSGO<br>MAP UNIT ID | PERCENT<br>HYDRIC | HYDROLOGIC<br>GROUP | PERMEABILITY<br>(in/hour) | SOIL<br>pH | ESTIMATED<br>SOIL TEXTURE | SOIL<br>ERODIBILITY |
|------------------------|-------------------|---------------------|---------------------------|------------|---------------------------|---------------------|
| TN047                  | 21.00             | C                   | 1.62                      | 5.73       | Silty Loam                | 0.37                |
| TN048                  | 8.00              | B                   | 1.38                      | 5.06       | Silty Loam                | 0.42                |
| TN049                  | 0.00              | C                   | 1.30                      | 5.94       | Silty Loam                | 0.34                |
| TN060                  | 5.00              | C                   | 1.30                      | 5.32       | Silty Loam                | 0.39                |
| TN070                  | 0.00              | B                   | 1.38                      | 5.76       | Loam                      | 0.33                |

**Table 4-33. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060401.** The definition of "Hydrologic Group" is provided in Appendix IV.

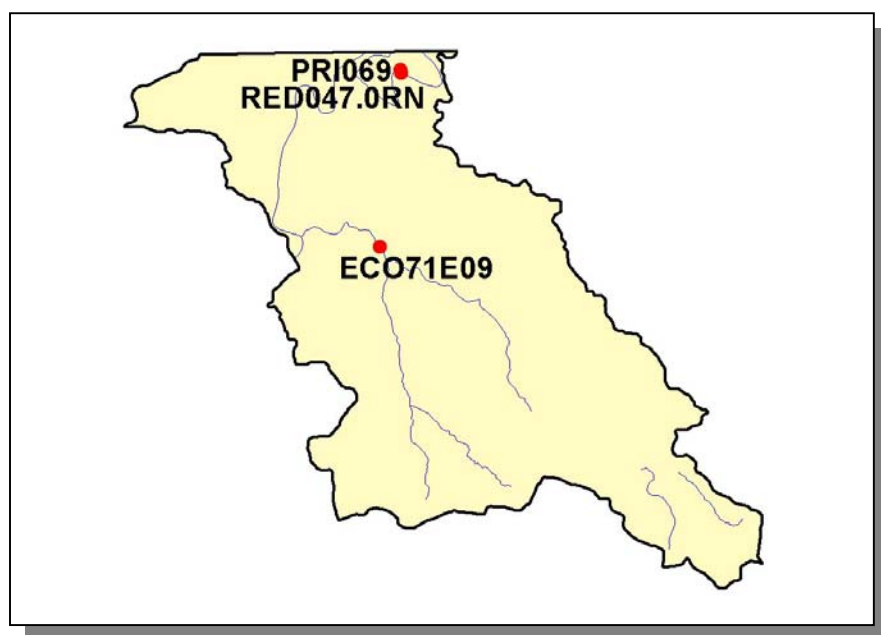
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| County    | COUNTY POPULATION |        |        | Portion of Watershed (%) | ESTIMATED POPULATION IN WATERSHED |       |       | % Change (1990-2000) |
|-----------|-------------------|--------|--------|--------------------------|-----------------------------------|-------|-------|----------------------|
|           | 1990              | 1997   | 2000   |                          | 1990                              | 1997  | 2000  |                      |
| Robertson | 41,494            | 51,533 | 54,433 | 5.63                     | 2,334                             | 2,899 | 3,062 | 31.2                 |

**Table 4-34. Population Estimates in Subwatershed 060102060401.**

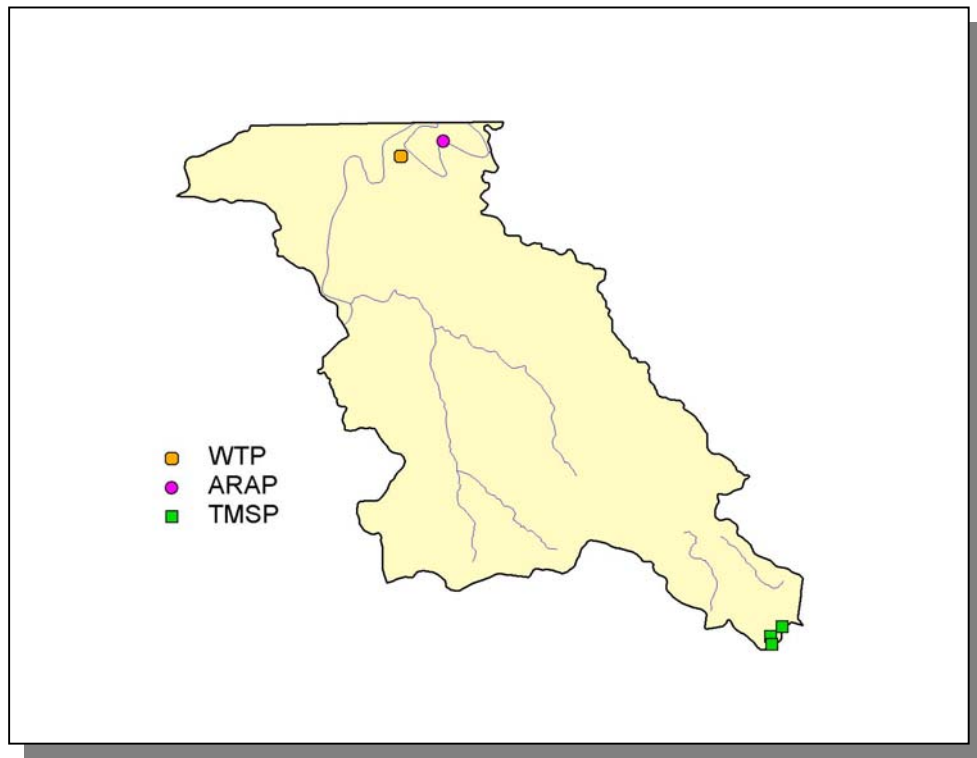
| Populated Place | County    | Population    | NUMBER OF HOUSING UNITS |              |             |          |
|-----------------|-----------|---------------|-------------------------|--------------|-------------|----------|
|                 |           |               | Total                   | Public Sewer | Septic Tank | Other    |
| Cedar Hill      | Robertson | 363           | 128                     | 16           | 105         | 7        |
| Springfield     | Robertson | 11,227        | 4,530                   | 4,436        | 94          | 0        |
| <b>Total</b>    |           | <b>11,590</b> | <b>4,658</b>            | <b>4,452</b> | <b>199</b>  | <b>7</b> |

**Table 4-35. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060401.**

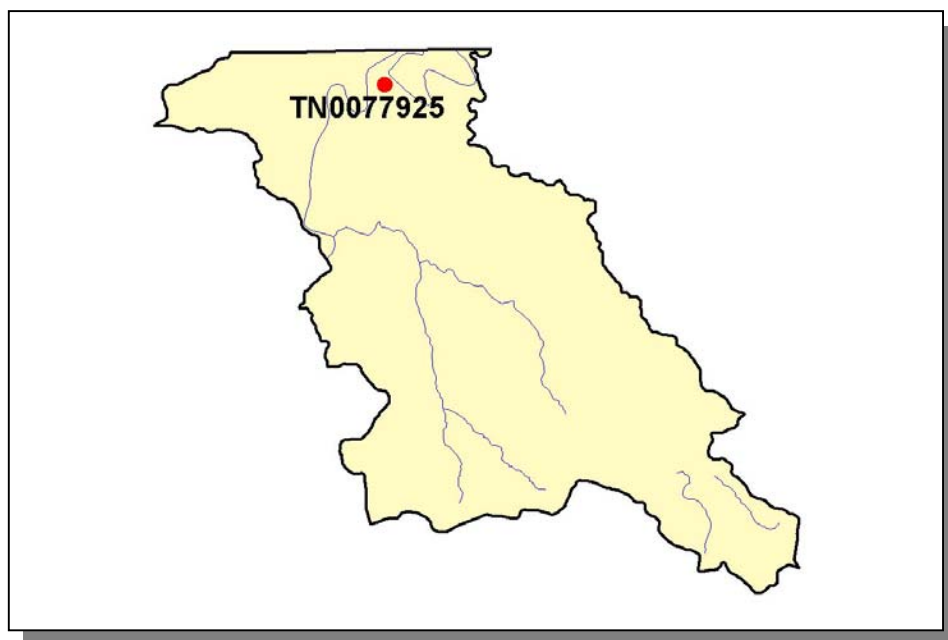


**Figure 4-47. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060401.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

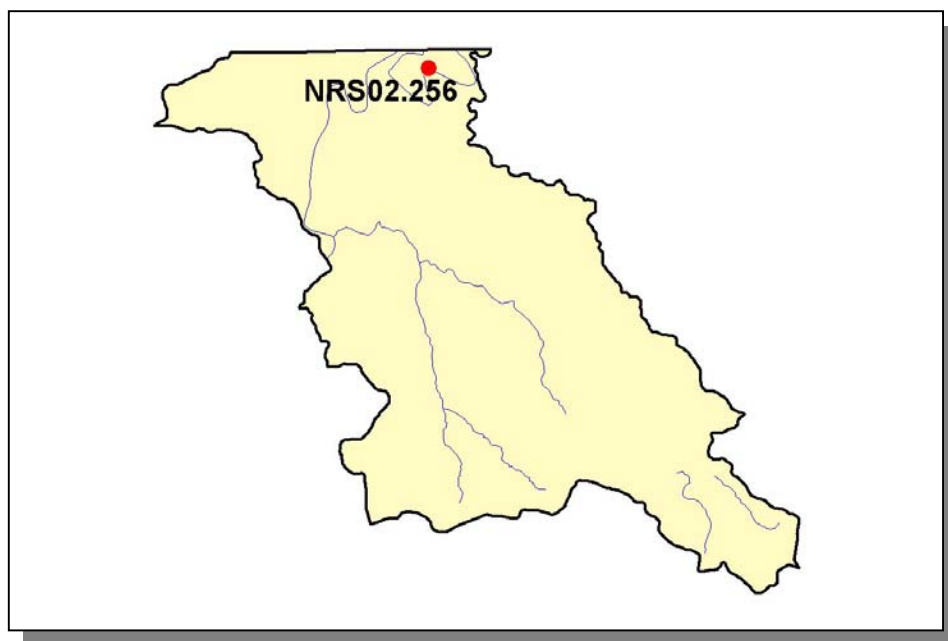
**4.2.C.i.a. Point Source Contributions.**



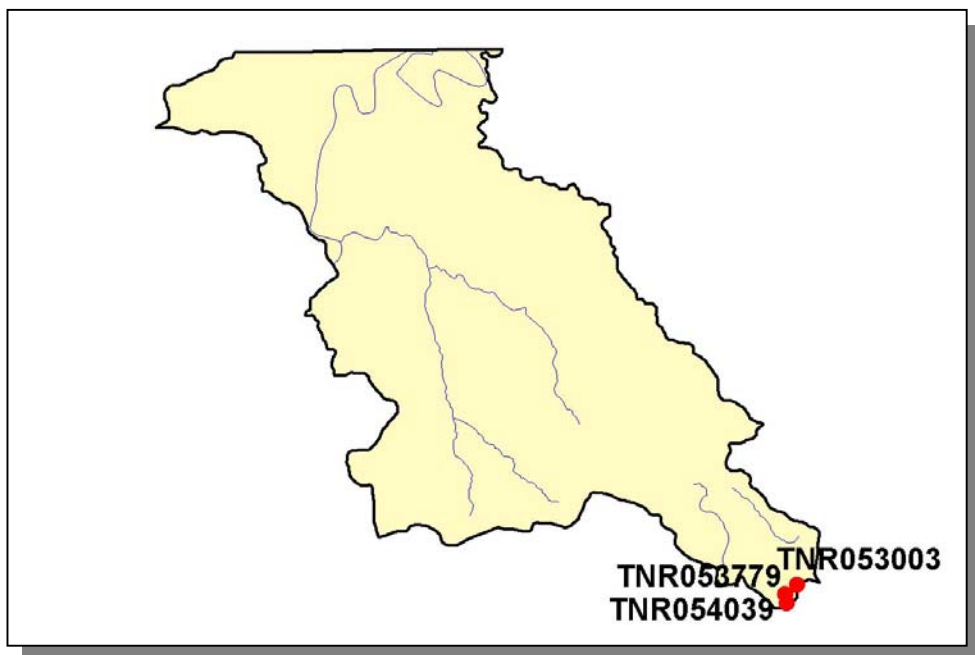
**Figure 4-48. Location of Permits Issued in Subwatershed 051302060401.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-49. Location of Water Treatment Plants in Subwatershed 051302060401.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-50. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060401.** More information is provided in Appendix IV.



**Figure 4-51. Location of TMSP Sites in Subwatershed 051302060401.** More information, including the names of facilities, is provided in Appendix IV.

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**4.2.C.i.b. Nonpoint Source Contributions.**

| LIVESTOCK COUNTS |        |          |                   |      |       |
|------------------|--------|----------|-------------------|------|-------|
| Beef Cow         | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| 1,572            | 3,345  | 243      | <5                | 488  | 19    |

**Table 4-36. Summary of Livestock Count Estimates in Subwatershed 051302060401.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| LIVESTOCK COUNTS |          |        |          |                   |       |       |
|------------------|----------|--------|----------|-------------------|-------|-------|
| County           | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs  | Sheep |
| Robertson        | 22,502   | 47,887 | 3,478    | 31                | 6,982 | 279   |

**Table 4-37. Summary of Livestock Count Estimates in Robertson County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

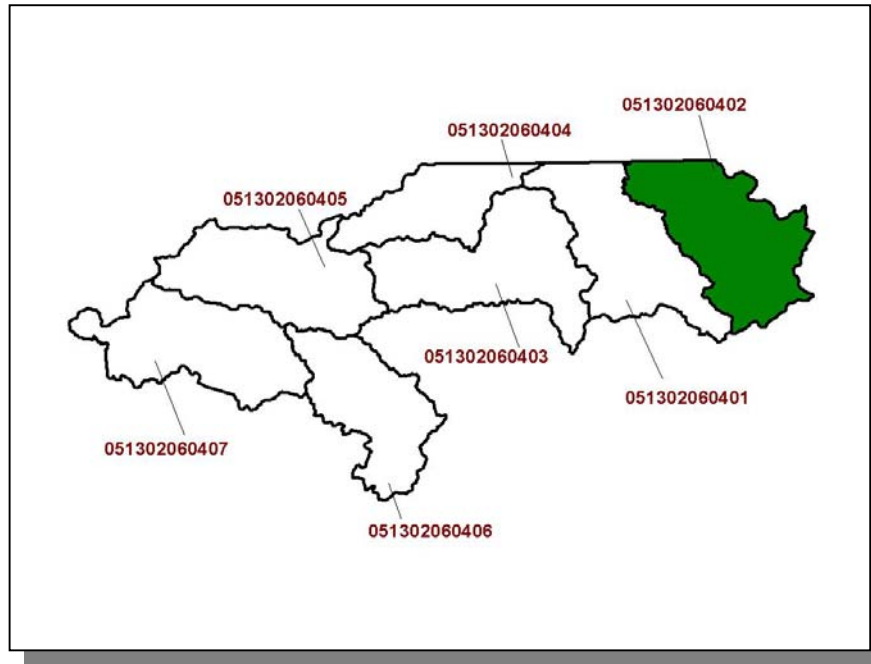
| County    | INVENTORY                       |                                 | REMOVAL RATE                          |                                   |
|-----------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
|           | Forest Land<br>(thousand acres) | Timber Land<br>(thousand acres) | Growing Stock<br>(million cubic feet) | Sawtimber<br>(million board feet) |
| Robertson | 53.0                            | 53.0                            | 2.2                                   | 9.7                               |

**Table 4-38. Forest Acreage and Annual Removal Rates (1987-1994) in Robertson County.**

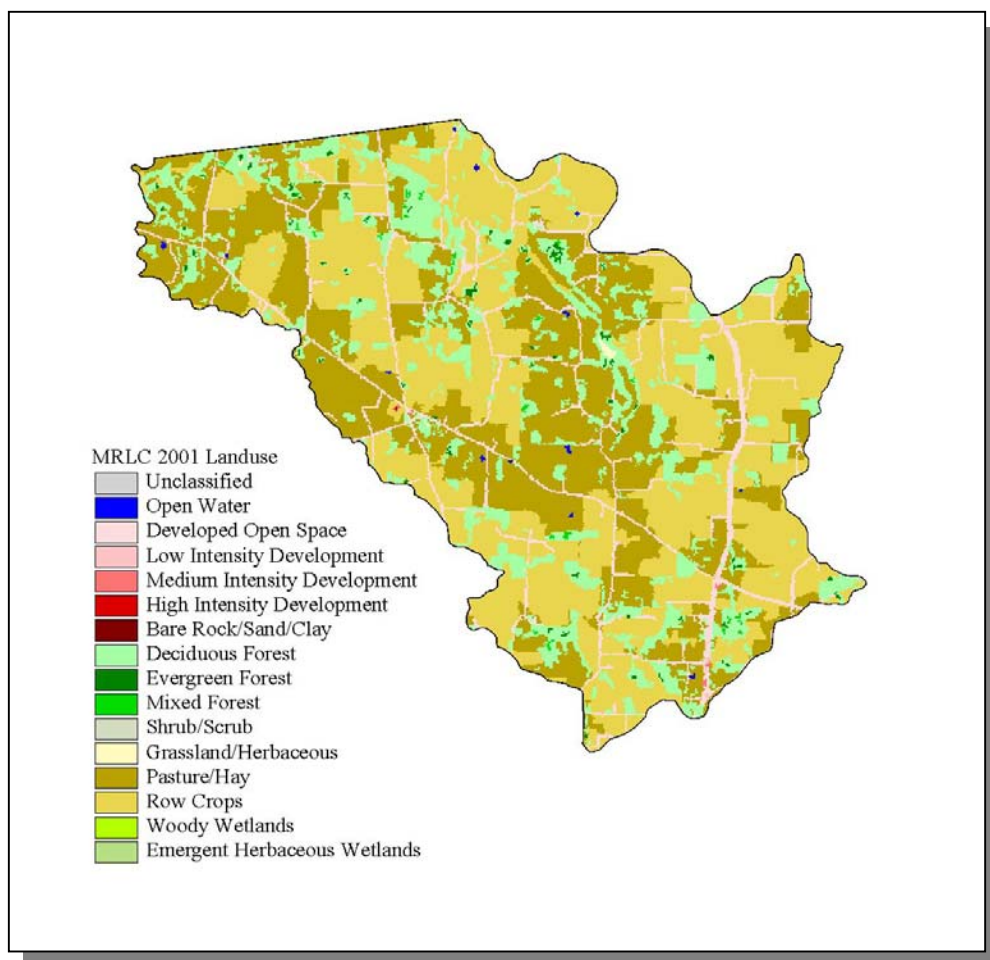
| CROPS                                 | TONS/ACRE/YEAR |
|---------------------------------------|----------------|
| Grass (Pastureland)                   | 0.67           |
| Grass (Hayland)                       | 0.37           |
| Legumes, Grass (Hayland)              | 0.53           |
| Legumes (Hayland)                     | 0.73           |
| Grass, Forbs, Legumes (Mixed Pasture) | 0.42           |
| Corn (Row Crops)                      | 5.15           |
| Soybeans (Row Crops)                  | 10.03          |
| Tobacco (Row Crops)                   | 11.87          |
| Wheat (Close-Grown Cropland)          | 1.68           |
| Other Cropland not Planted            | 9.59           |
| Conservation Reserve Program Lands    | 0.36           |
| Other Land in Farms                   | 0.27           |
| Farmsteads and Ranch Headquarters     | 0.95           |

**Table 4-39. Annual Estimated Total Soil Loss in Subwatershed 051302060401.**

**4.2.C.ii.** 051302060402 (Spring Creek).

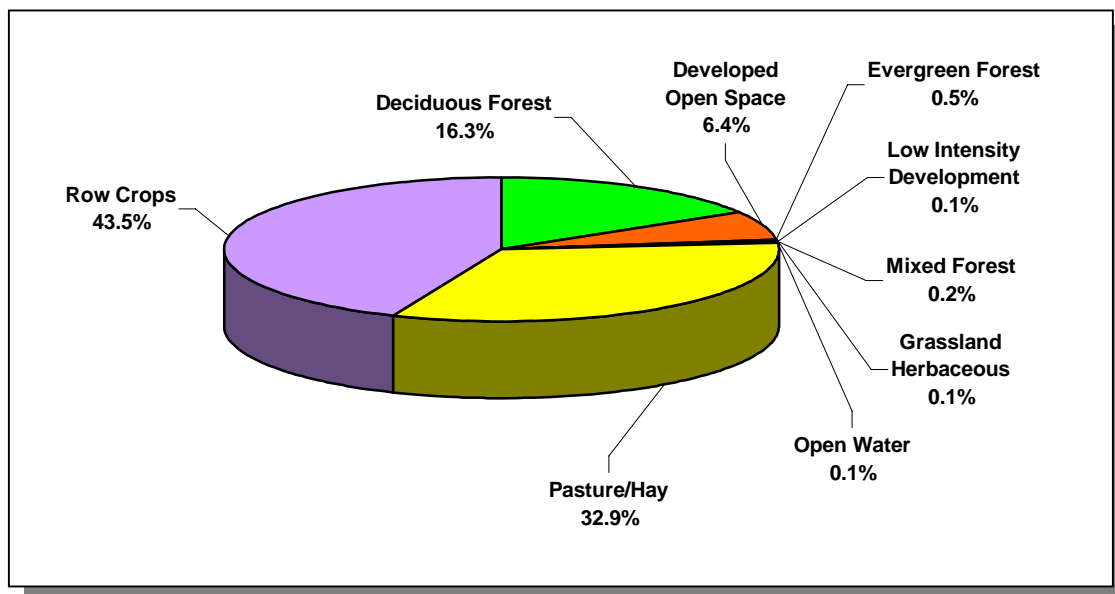


**Figure 4-52. Location of Subwatershed 051302060402.** All HUC-12 subwatershed boundaries are shown for reference.

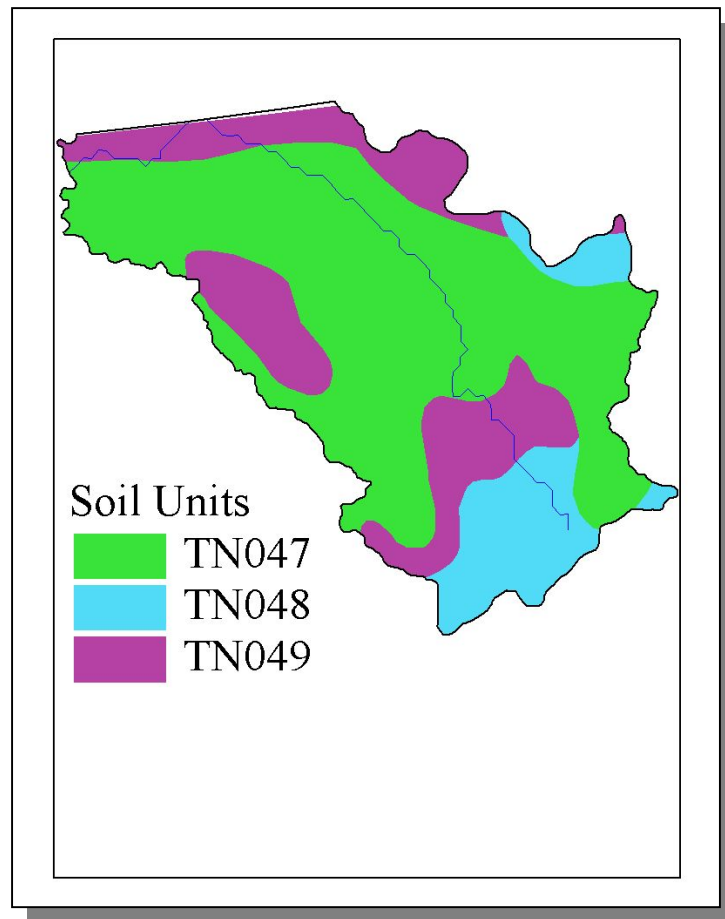


**Figure 4-53. Illustration of Land Use Distribution in Subwatershed 051302060402.**

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**Figure 4-54. Land Use Distribution in Subwatershed 051302060402.** More information is provided in Appendix IV.



**Figure 4-55. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060402.**

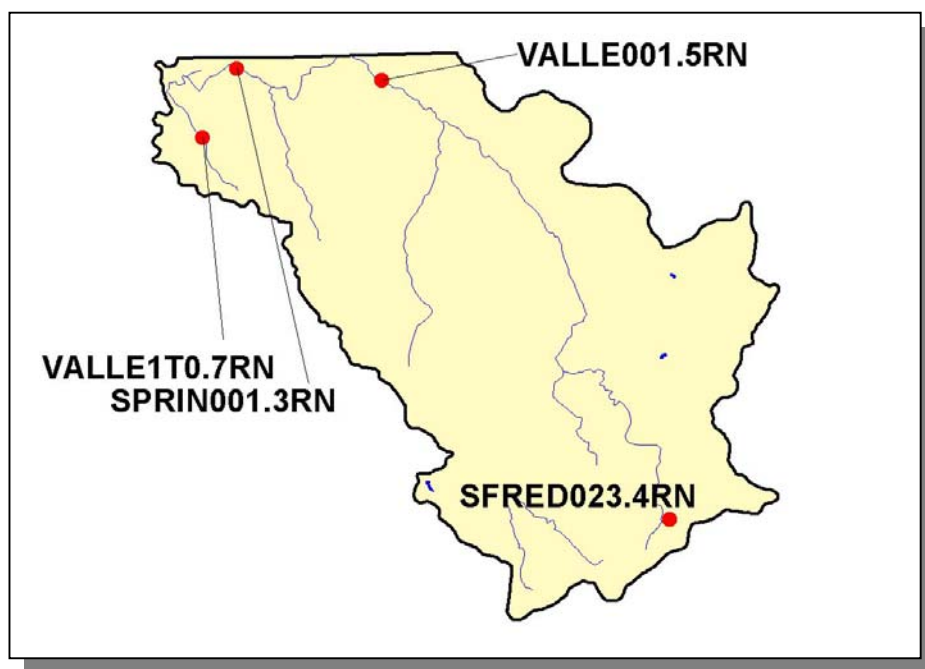
| STATSGO<br>MAP UNIT ID | PERCENT<br>HYDRIC | HYDROLOGIC<br>GROUP | PERMEABILITY<br>(in/hour) | SOIL<br>pH | ESTIMATED<br>SOIL TEXTURE | SOIL<br>ERODIBILITY |
|------------------------|-------------------|---------------------|---------------------------|------------|---------------------------|---------------------|
| TN047                  | 21.00             | C                   | 1.62                      | 5.73       | Silty Loam                | 0.37                |
| TN048                  | 8.00              | B                   | 1.38                      | 5.06       | Silty Loam                | 0.42                |
| TN049                  | 0.00              | C                   | 1.30                      | 5.94       | Silty Loam                | 0.34                |

**Table 4-40. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060402.** The definition of "Hydrologic Group" is provided in Appendix IV.

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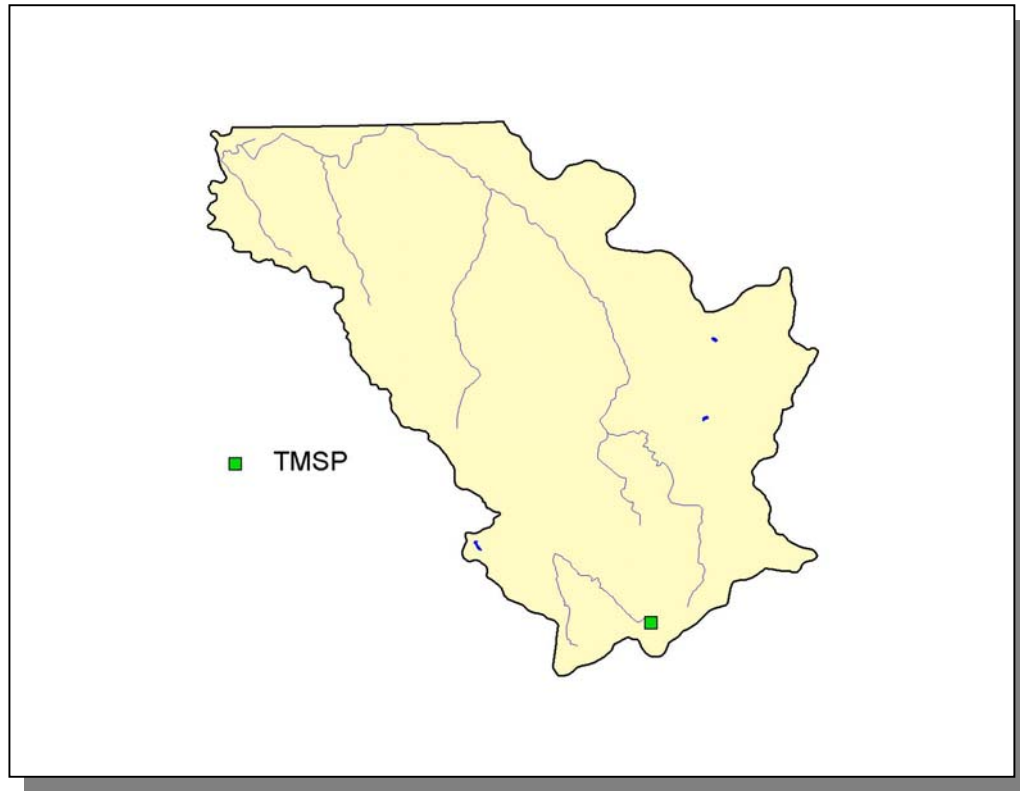
| County    | COUNTY<br>POPULATION |        |        | Portion of<br>Watershed (%) | ESTIMATED POPULATION<br>IN WATERSHED |       |       | % Change<br>(1990-2000) |
|-----------|----------------------|--------|--------|-----------------------------|--------------------------------------|-------|-------|-------------------------|
|           | 1990                 | 1997   | 2000   |                             | 1990                                 | 1997  | 2000  |                         |
| Robertson | 41,494               | 51,533 | 54,433 | 5.95                        | 2,467                                | 3,064 | 3,237 | 31.2                    |

**Table 4-41. Population Estimates in Subwatershed 051302060402.**



**Figure 4-56. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060402.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

**4.2.C.ii.a. Point Source Contributions.**



**Figure 4-57. Location of Permits Issued in Subwatershed 051302060402.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-58. Location of TMSF Sites in Subwatershed 051302060402.** More information, including the names of facilities, is provided in Appendix IV.

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**4.2.C.ii.b. Nonpoint Source Contributions.**

| LIVESTOCK COUNTS |        |          |                   |      |       |
|------------------|--------|----------|-------------------|------|-------|
| Beef Cow         | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| 1,364            | 2,903  | 211      | <5                | 423  | 17    |

**Table 4-42. Summary of Livestock Count Estimates in Subwatershed 051302060402.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| LIVESTOCK COUNTS |          |        |          |                   |       |       |
|------------------|----------|--------|----------|-------------------|-------|-------|
| County           | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs  | Sheep |
| Robertson        | 22,502   | 47,887 | 3,478    | 31                | 6,982 | 279   |

**Table 4-43. Summary of Livestock Count Estimates in Robertson County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

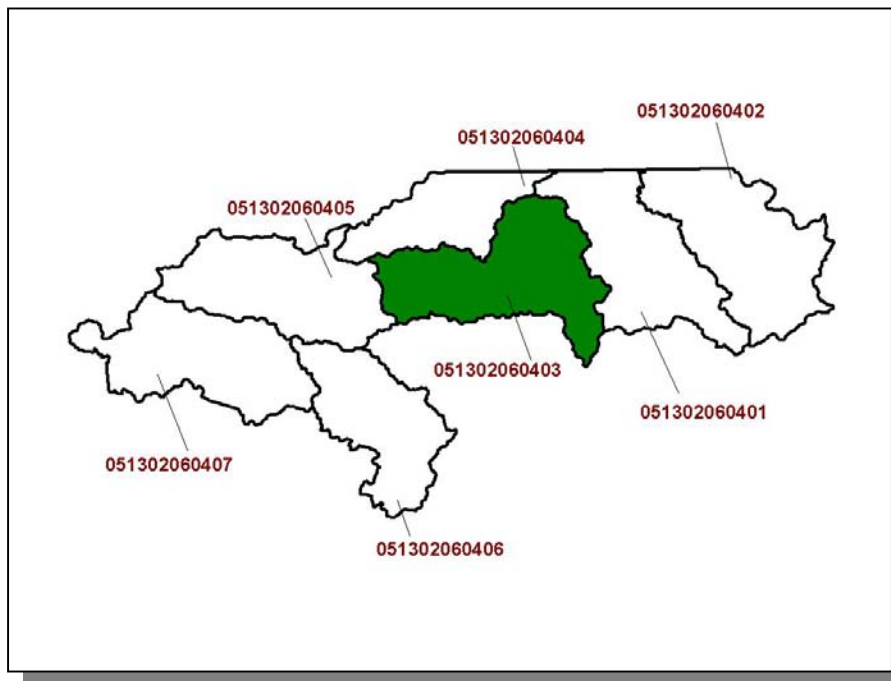
| County    | INVENTORY                       |                                 | REMOVAL RATE                          |                                   |
|-----------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
|           | Forest Land<br>(thousand acres) | Timber Land<br>(thousand acres) | Growing Stock<br>(million cubic feet) | Sawtimber<br>(million board feet) |
| Robertson | 53.0                            | 53.0                            | 2.2                                   | 9.7                               |

**Table 4-44. Forest Acreage and Annual Removal Rates (1987-1994) in Robertson County.**

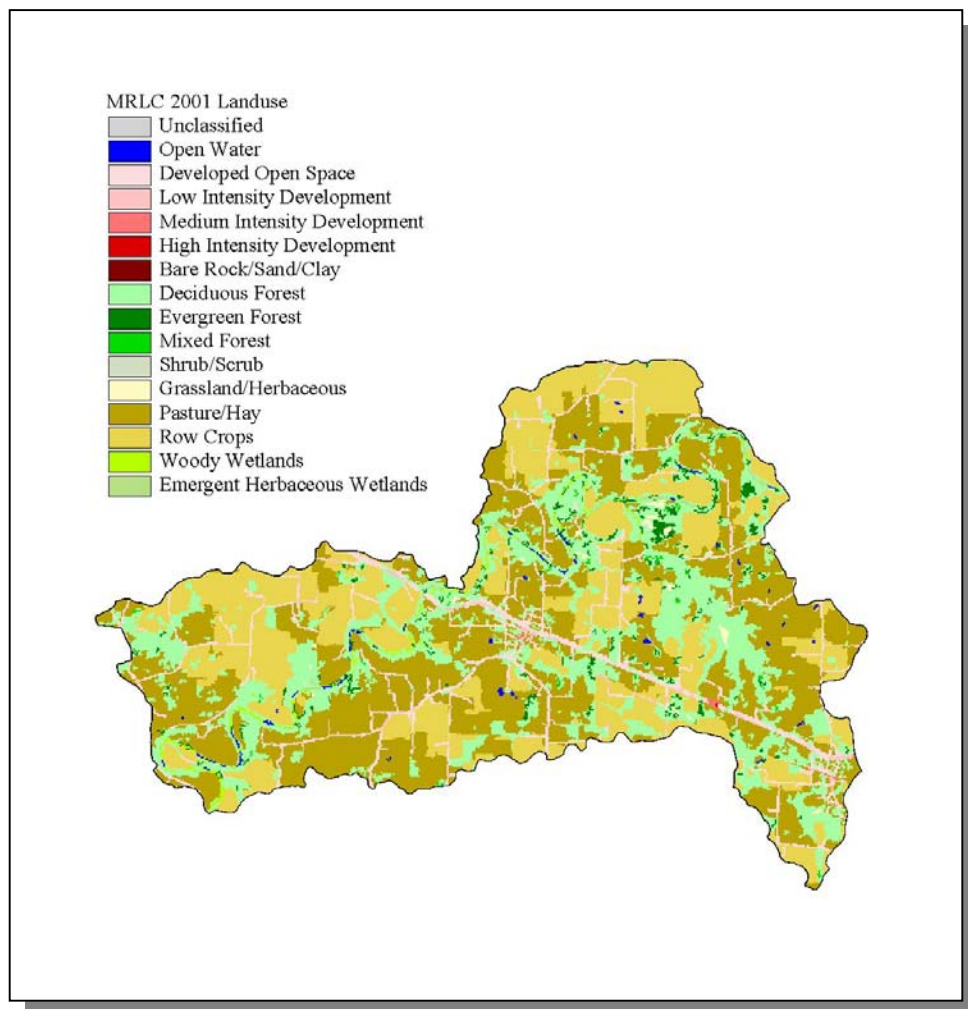
| CROPS                                 | TONS/ACRE/YEAR |
|---------------------------------------|----------------|
| Grass (Pastureland)                   | 0.67           |
| Grass (Hayland)                       | 0.37           |
| Legumes, Grass (Hayland)              | 0.53           |
| Legumes (Hayland)                     | 0.73           |
| Grass, Forbs, Legumes (Mixed Pasture) | 0.42           |
| Corn (Row Crops)                      | 5.15           |
| Soybeans (Row Crops)                  | 10.03          |
| Tobacco (row Crops)                   | 11.87          |
| Wheat (Close-Grown Cropland)          | 1.68           |
| Other Cropland not Planted            | 9.59           |
| Conservation Reserve Program Lands    | 0.36           |
| Other Land in Farms                   | 0.27           |
| Farmsteads and Ranch Headquarters     | 0.95           |

**Table 4-45. Annual Estimated Total Soil Loss in Subwatershed 051302060402.**

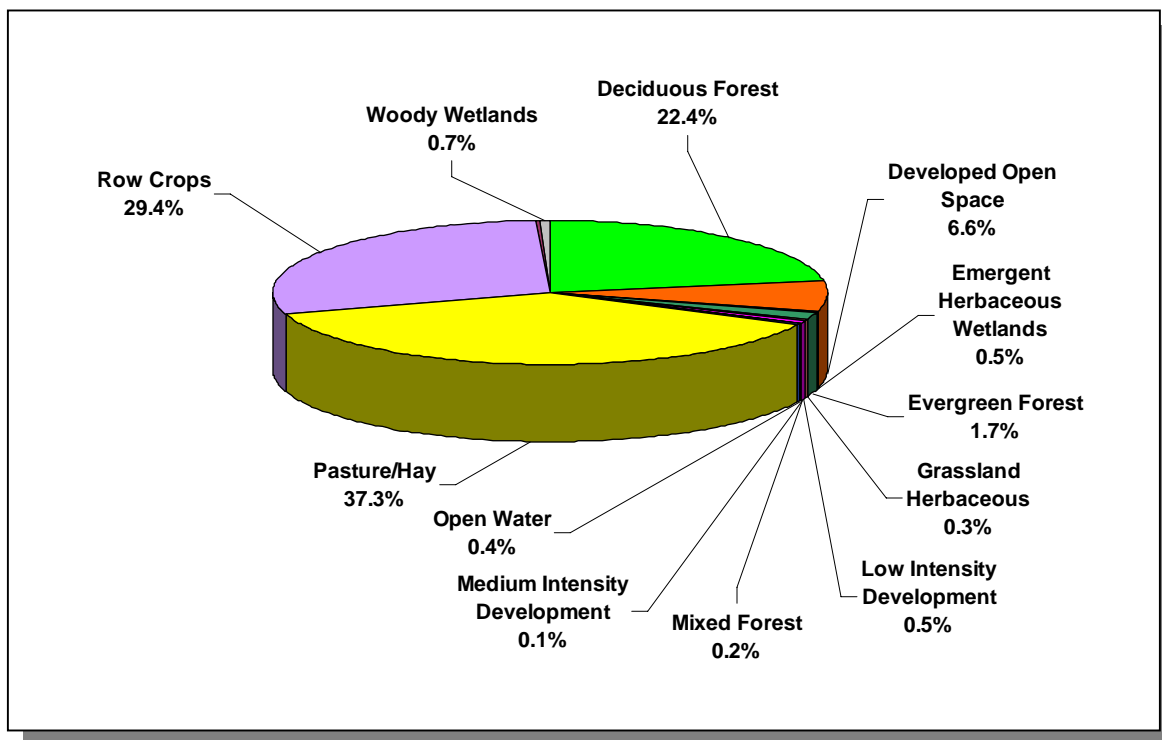
**4.2.C.iii. 051302060403 (Red River).**



**Figure 4-59. Location of Subwatershed 051302060403.** All Red River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

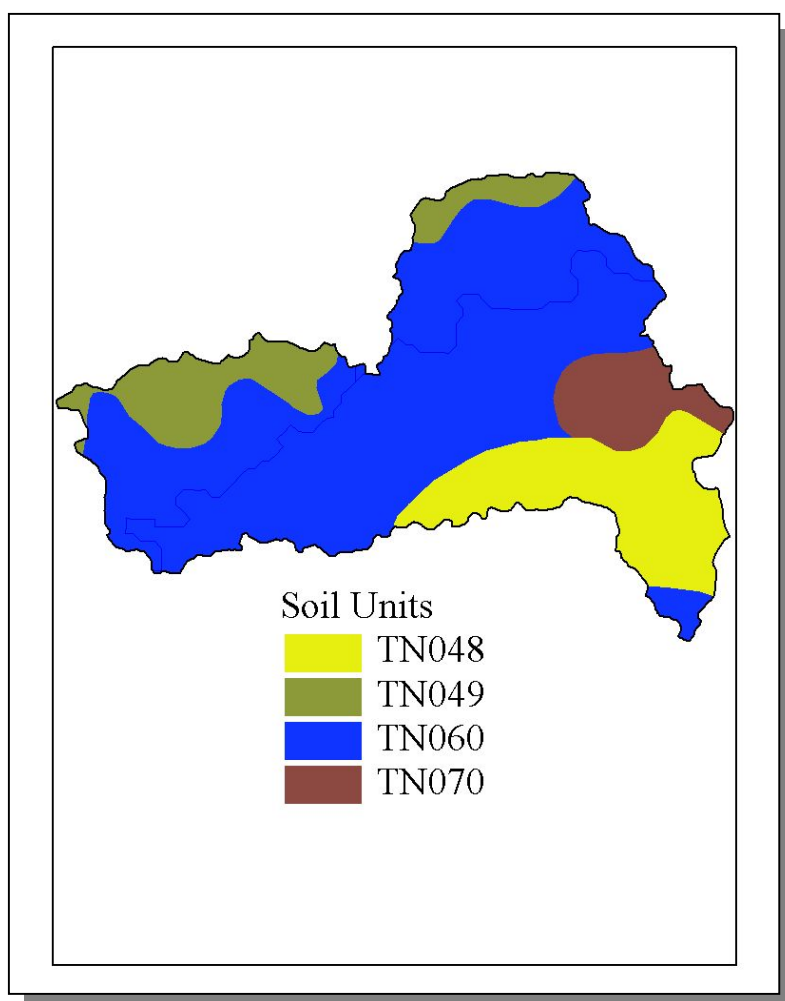


**Figure 4-60. Illustration of Land Use Distribution in Subwatershed 051302060403.**



**Figure 4-61. Land Use Distribution in Subwatershed 051302060403.** More information is provided in Appendix IV.

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**Figure 4-62. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060403.**

| STATSGO<br>MAP UNIT ID | PERCENT<br>HYDRIC | HYDROLOGIC<br>GROUP | PERMEABILITY<br>(in/hour) | SOIL<br>pH | ESTIMATED<br>SOIL TEXTURE | SOIL<br>ERODIBILITY |
|------------------------|-------------------|---------------------|---------------------------|------------|---------------------------|---------------------|
| TN048                  | 8.00              | B                   | 1.38                      | 5.06       | Silty Loam                | 0.42                |
| TN049                  | 0.00              | C                   | 1.30                      | 5.94       | Silty Loam                | 0.34                |
| TN060                  | 5.00              | C                   | 1.30                      | 5.32       | Silty Loam                | 0.39                |
| TN070                  | 0.00              | B                   | 1.38                      | 5.76       | Loam                      | 0.33                |

**Table 4-46. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060403.** The definition of “Hydrologic Group” is provided in Appendix IV.

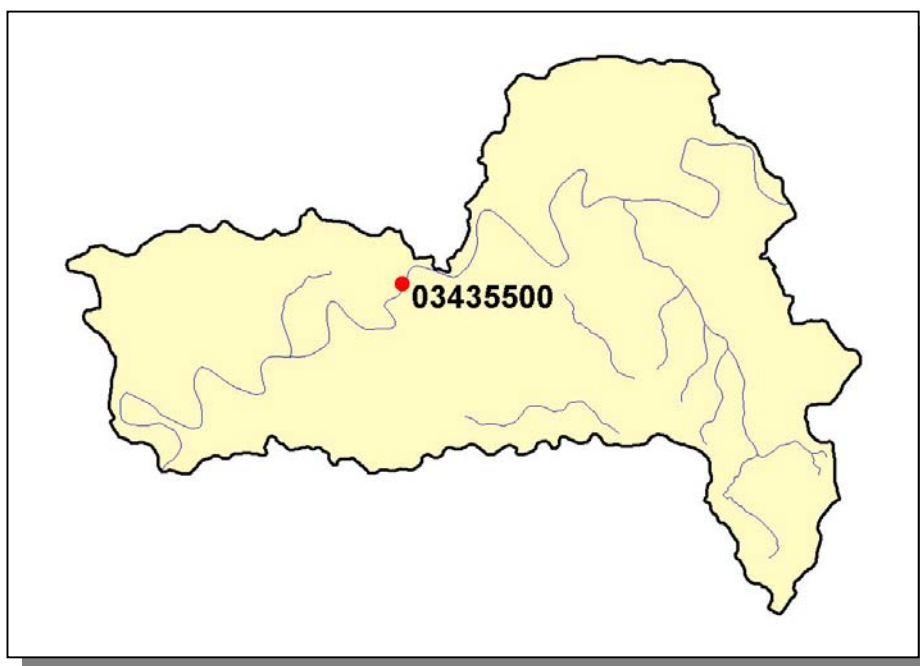
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| County       | COUNTY<br>POPULATION |                |                | Portion of<br>Watershed (%) | ESTIMATED POPULATION<br>IN WATERSHED |              |              | % Change<br>(1990-2000) |
|--------------|----------------------|----------------|----------------|-----------------------------|--------------------------------------|--------------|--------------|-------------------------|
|              | 1990                 | 1997           | 2000           |                             | 1990                                 | 1997         | 2000         |                         |
| Montgomery   | 100,498              | 124,369        | 134,768        | 0.72                        | 722                                  | 894          | 968          | 34.1                    |
| Robertson    | 41,494               | 51,533         | 54,433         | 5.49                        | 2,277                                | 2,828        | 2,988        | 31.2                    |
| <b>Total</b> | <b>141,992</b>       | <b>175,902</b> | <b>189,201</b> |                             | <b>2,999</b>                         | <b>3,722</b> | <b>3,956</b> | <b>31.9</b>             |

*Table 4-47. Population Estimates in Subwatershed 051302060403.*

|                 |           |            | NUMBER OF HOUSING UNITS |              |             |           |
|-----------------|-----------|------------|-------------------------|--------------|-------------|-----------|
| Populated Place | County    | Population | Total                   | Public Sewer | Septic Tank | Other     |
| Adams           | Robertson | 571        | 241                     | 18           | 215         | 8         |
| Cedar Hill      | Robertson | 363        | 128                     | 16           | 105         | 7         |
| <b>Total</b>    |           | <b>934</b> | <b>369</b>              | <b>34</b>    | <b>320</b>  | <b>15</b> |

*Table 4-48. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060403.*

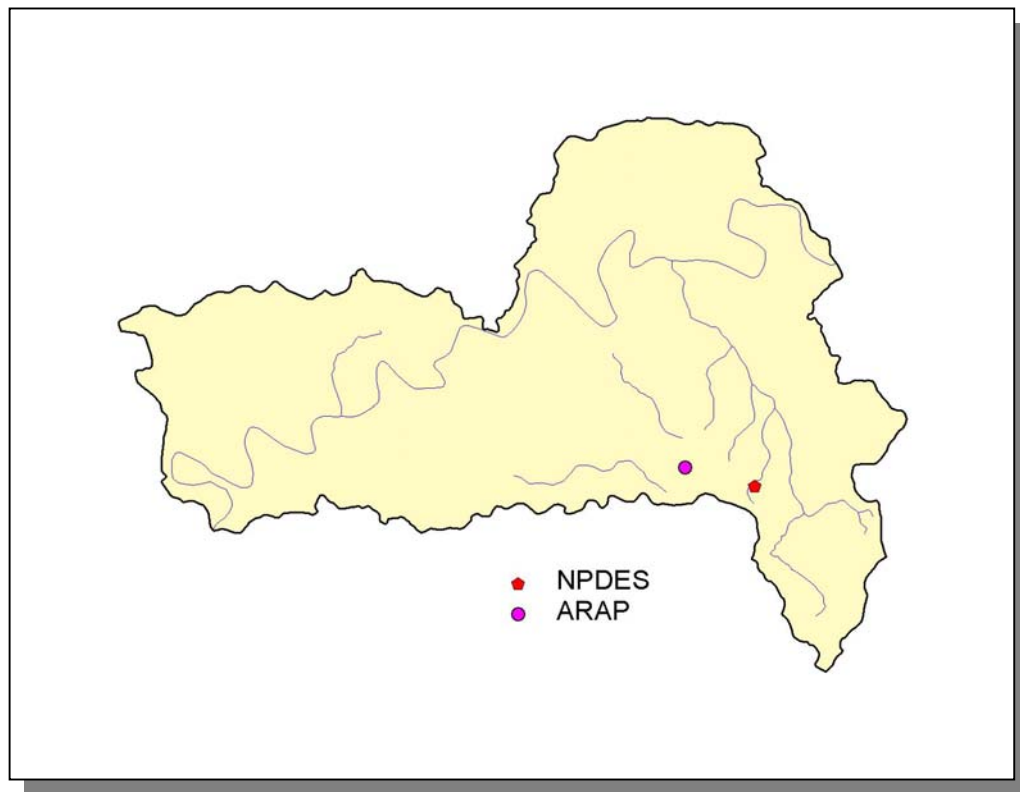


**Figure 4-63. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060403.** More information is provided in Appendix IV.

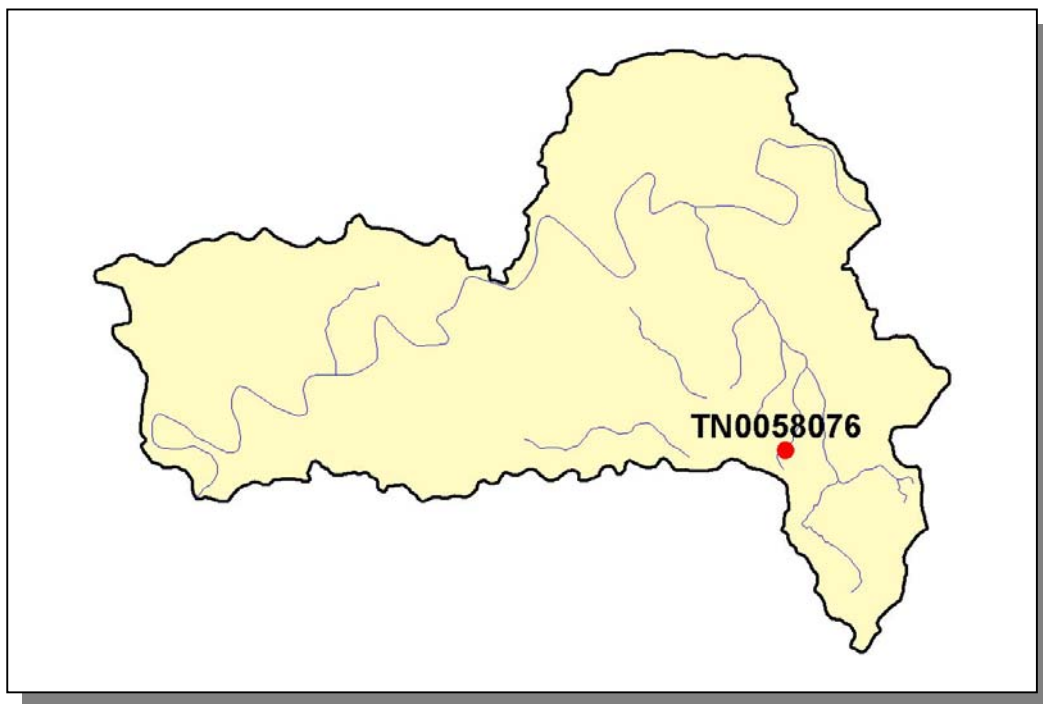


**Figure 4-64. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060403.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

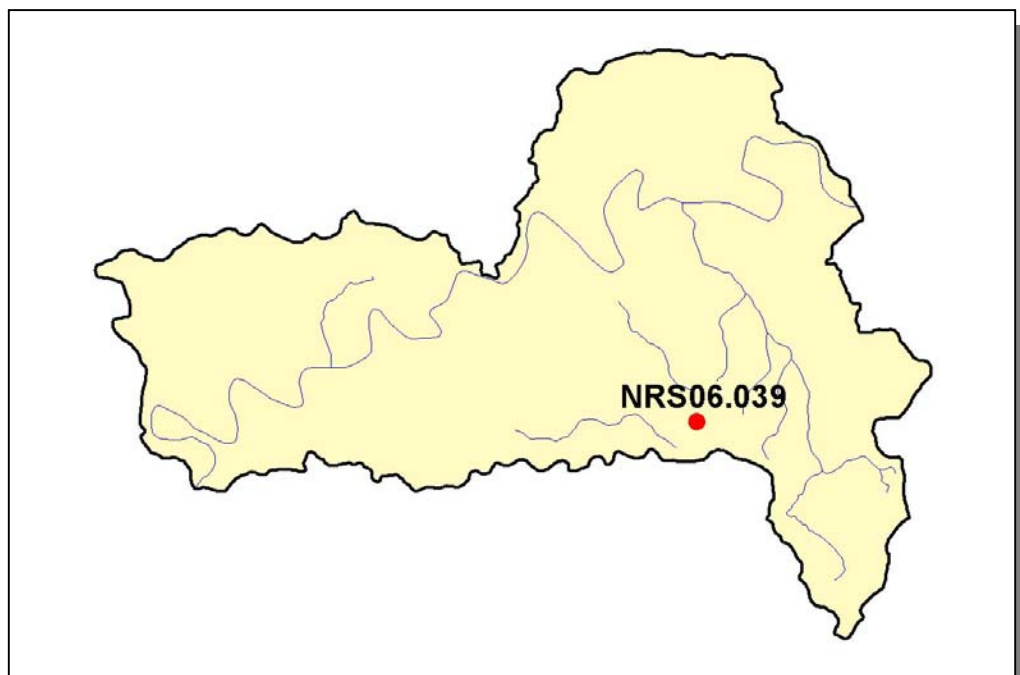
**4.2.C.iii.a. Point Source Contributions.**



**Figure 4-65. Location of Permits Issued in Subwatershed 051302060403.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-66. Location of Active NPDES Sites in Subwatershed 051302060403.** More information, including the names of facilities, is provided in Appendix IV.

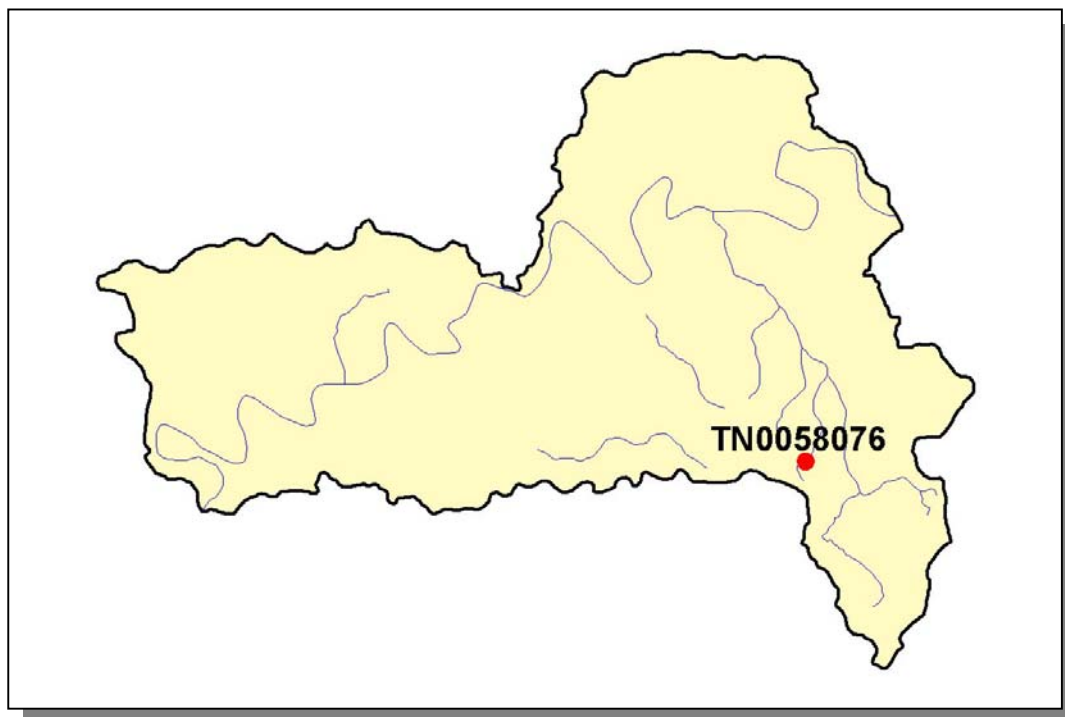


**Figure 4-67. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060403.** More information is provided in Appendix IV.

**4.2.C.iii.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List**

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 051302060403:

- TN0058076 (Jo Byrnes School) discharges to an unnamed tributary @ RM 1.1 to Sturgeon Creek @ RM 2.4 Branch Creek @ RM 2.2



**Figure 4-68. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 051302060403.** More information, including the names of facilities, is provided in Appendix IV.

| PERMIT #  | 1Q10 | 3Q10 | 7Q10 | 3Q20 | QDESIGN |
|-----------|------|------|------|------|---------|
| TN0058076 |      |      |      | 0    | 0.025   |

**Table 4-49. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060403.** Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

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| PERMIT #  | CBOD <sub>5</sub> | NH <sub>3</sub> | TSS | TRC | SETTLEABLE SOLIDS | DO | pH | FLOW |
|-----------|-------------------|-----------------|-----|-----|-------------------|----|----|------|
| TN0058076 | X                 | X               | X   | X   | X                 | X  | X  | X    |

**Table 4-50. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060403.** WET, Whole Effluent Toxicity; CBOD<sub>5</sub>, Carbonaceous Biochemical Oxygen Demand (5-Day); NH<sub>3</sub>, Ammonia; TSS, Total Suspended Solids; TRC, Total Residual Chlorine; DO, Dissolved Oxygen.

| PERMIT #  | FECAL COLIFORM |
|-----------|----------------|
| TN0058076 | X              |

**Table 4-51. Bacteria Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060403.**

**4.2.C.iii.b. Nonpoint Source Contributions.**

| LIVESTOCK COUNTS |        |          |                   |      |       |
|------------------|--------|----------|-------------------|------|-------|
| Beef Cow         | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| 1,714            | 3,583  | 230      | <5                | 460  | 19    |

**Table 4-52. Summary of Livestock Count Estimates in Subwatershed 051302060403.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| LIVESTOCK COUNTS |          |        |          |                   |       |       |
|------------------|----------|--------|----------|-------------------|-------|-------|
| County           | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs  | Sheep |
| Montgomery       | 16,051   | 30,959 | 760      | 913               | 1,408 | 107   |
| Robertson        | 22,502   | 47,887 | 3,478    | 31                | 6,982 | 279   |

**Table 4-53. Summary of Livestock Count Estimates in Montgomery and Robertson Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| INVENTORY  |                                 |                                 | REMOVAL RATE                          |                                   |
|------------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
| County     | Forest Land<br>(thousand acres) | Timber Land<br>(thousand acres) | Growing Stock<br>(million cubic feet) | Sawtimber<br>(million board feet) |
| Montgomery |                                 |                                 |                                       |                                   |
| Robertson  | 53.0                            | 53.0                            | 2.2                                   | 9.7                               |

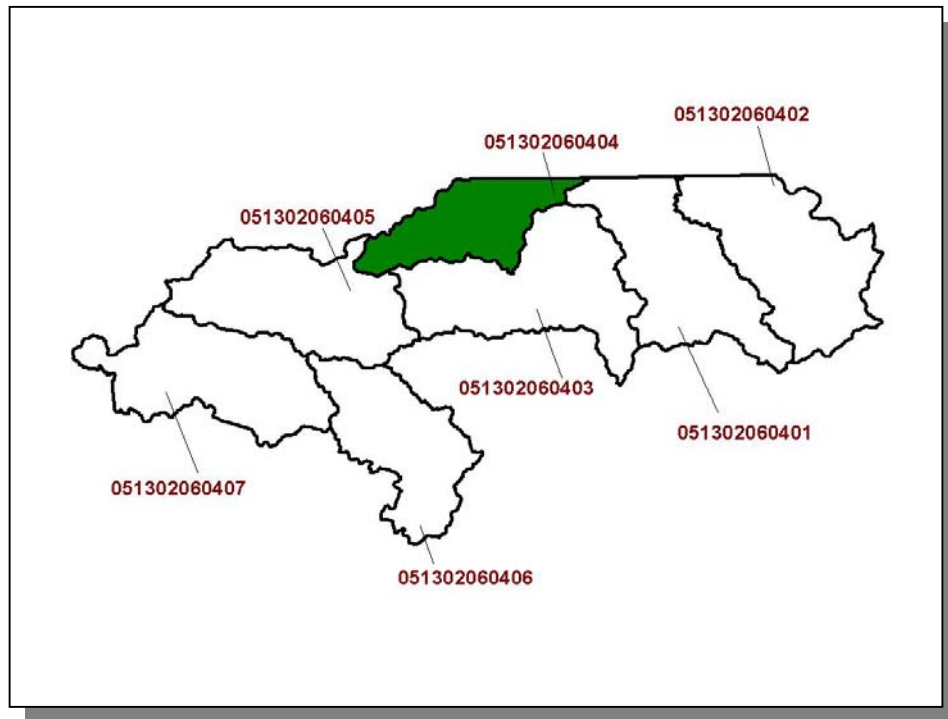
**Table 4-54. Forest Acreage and Annual Removal Rates (1987-1994) in Montgomery and Robertson Counties.**

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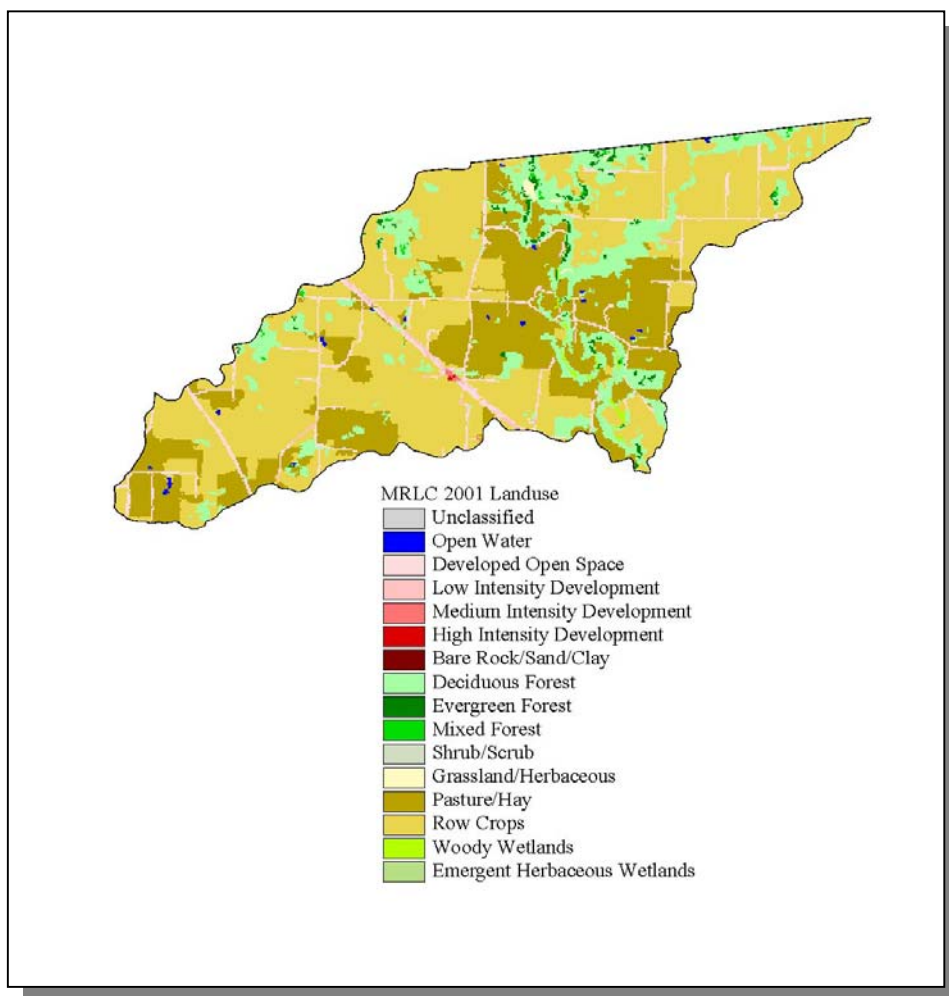
| <b>CROPS</b>                          | <b>TONS/ACRE/YEAR</b> |
|---------------------------------------|-----------------------|
| Grass (Pastureland)                   | 0.64                  |
| Grass (Hayland)                       | 0.36                  |
| Legumes, Grass (Hayland)              | 0.51                  |
| Legumes (Hayland)                     | 0.73                  |
| Grass, Forbs, Legumes (Mixed Pasture) | 0.44                  |
| Corn (Row Crops)                      | 5.52                  |
| Soybeans (Row Crops)                  | 9.29                  |
| Tobacco (Row Crops)                   | 13.19                 |
| Wheat (Close-Grown Cropland)          | 1.68                  |
| Other Cropland not Planted            | 9.59                  |
| Conservation Reserve Program Lands    | 0.37                  |
| Other Land in Farms                   | 0.27                  |
| Farmsteads and Ranch Headquarters     | 0.83                  |

**Table 4-55. Annual Estimated Total Soil Loss in Subwatershed 051302060403.**

**4.2.C.iv. 051302060404 (Elk Fork Creek).**

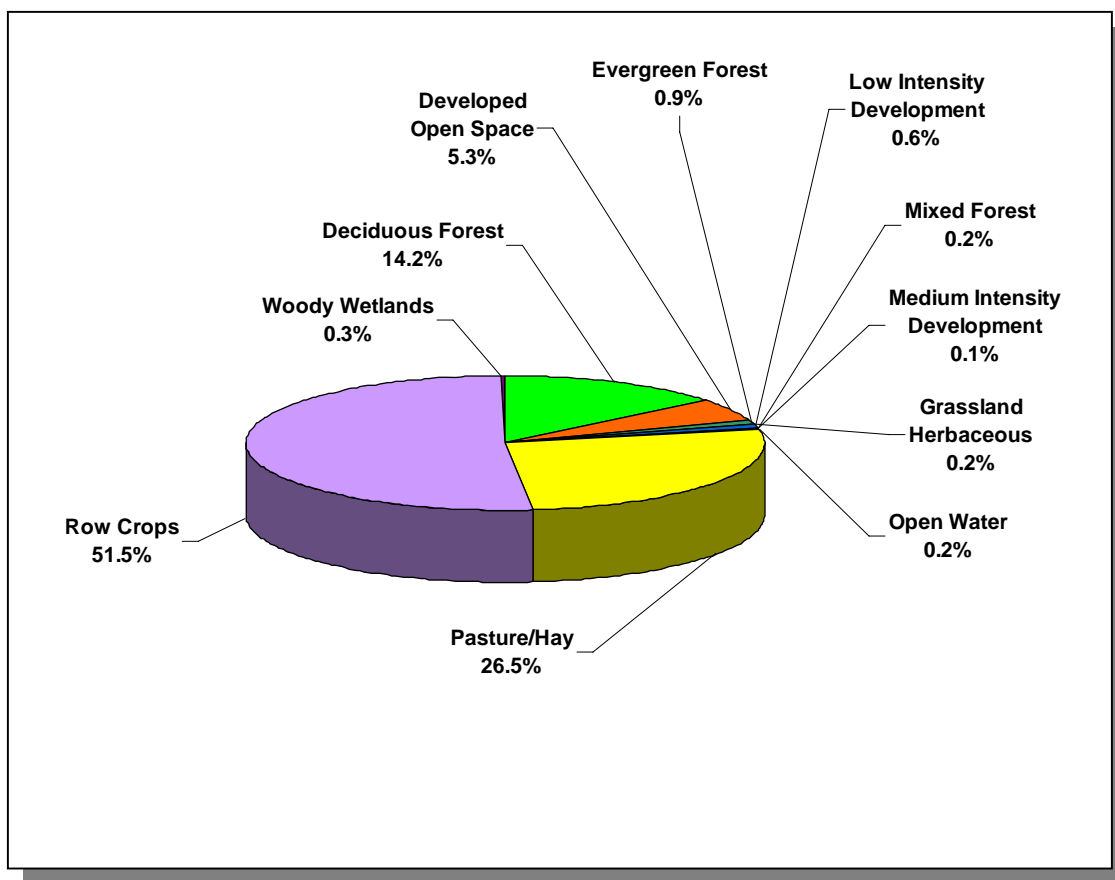


**Figure 4-69. Location of Subwatershed 051302060404.** All HUC-12 subwatershed boundaries are shown for reference.



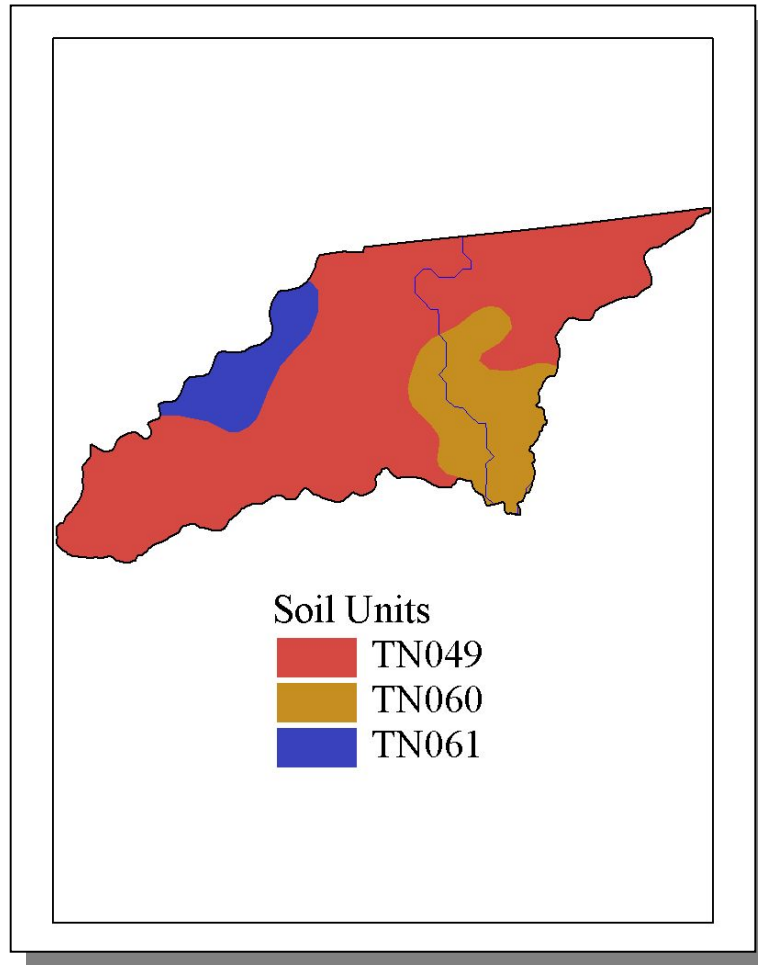
**Figure 4-70. Illustration of Land Use Distribution in Subwatershed 051302060404.**

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**Figure 4-71. Land Use Distribution in Subwatershed 051302060404.** More information is provided in Appendix IV.

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**Figure 4-72. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060404.**

| STATSGO<br>MAP UNIT ID | PERCENT<br>HYDRIC | HYDROLOGIC<br>GROUP | PERMEABILITY<br>(in/hour) | SOIL<br>pH | ESTIMATED<br>SOIL TEXTURE | SOIL<br>ERODIBILITY |
|------------------------|-------------------|---------------------|---------------------------|------------|---------------------------|---------------------|
| TN049                  | 0.00              | C                   | 1.30                      | 5.94       | Silty Loam                | 0.34                |
| TN060                  | 5.00              | C                   | 1.30                      | 5.32       | Silty Loam                | 0.39                |
| TN061                  | 50.00             | B                   | 1.30                      | 5.09       | Silty Loam                | 0.42                |

**Table 4-56. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060404.** The definition of "Hydrologic Group" is provided in Appendix IV.

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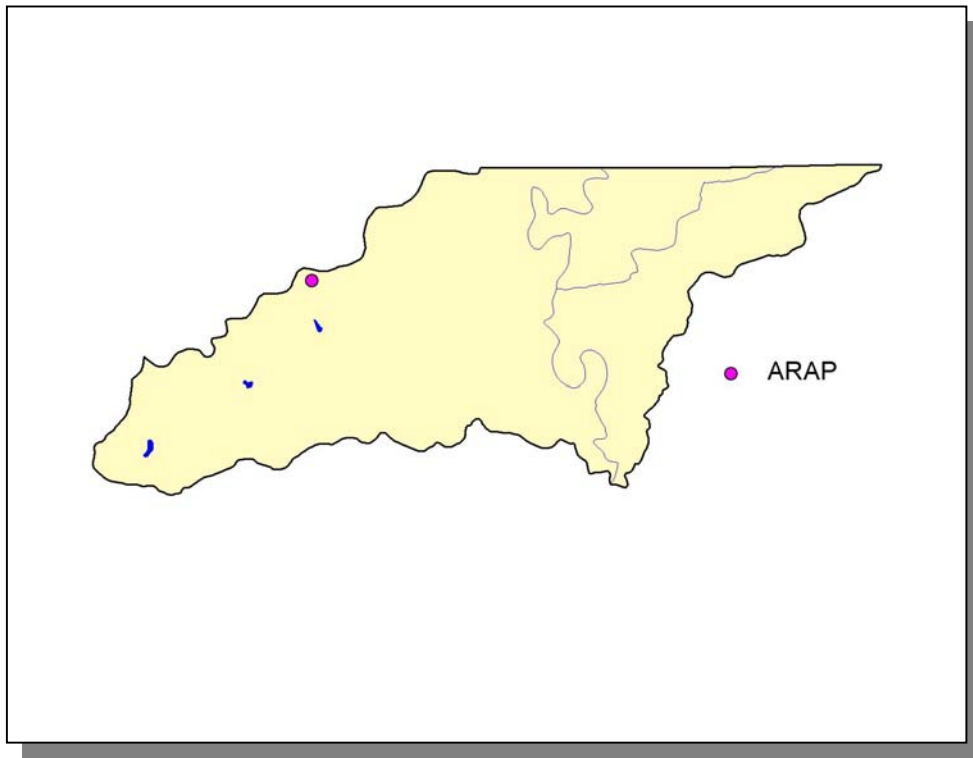
| County       | COUNTY<br>POPULATION |                |                | Portion of<br>Watershed (%) | ESTIMATED POPULATION<br>IN WATERSHED |              |              | % Change<br>(1990-2000) |
|--------------|----------------------|----------------|----------------|-----------------------------|--------------------------------------|--------------|--------------|-------------------------|
|              | 1990                 | 1997           | 2000           |                             | 1990                                 | 1997         | 2000         |                         |
| Montgomery   | 100,498              | 124,369        | 134,768        | 1.25                        | 1,252                                | 1,549        | 1,679        | 34.1                    |
| Robertson    | 41,494               | 51,533         | 54,433         | 2.02                        | 836                                  | 1,039        | 1,097        | 31.2                    |
| <b>Total</b> | <b>141,992</b>       | <b>175,902</b> | <b>189,201</b> |                             | <b>2,088</b>                         | <b>2,588</b> | <b>2,776</b> | <b>33.0</b>             |

*Table 4-57. Population Estimates in Subwatershed 051302060404.*

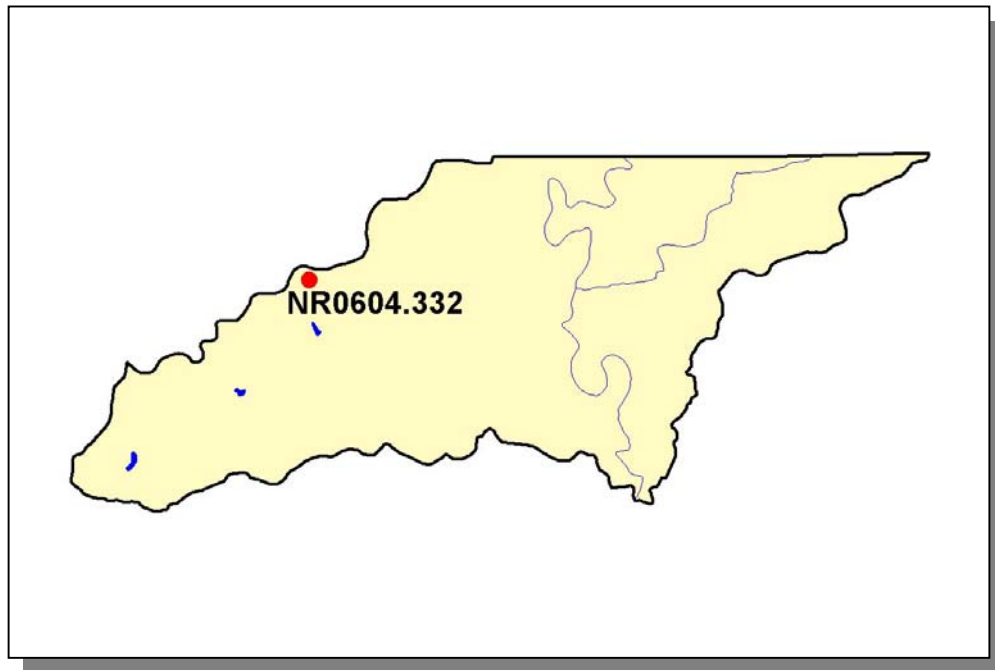


*Figure 4-73. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060404. More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.*

**4.2.C.iv.a. Point Source Contributions.**



**Figure 4-74. Location of Permits Issued in Subwatershed 051302060404.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-75. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060404. More information is provided in Appendix IV.**

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**4.2.C.iv.b. Nonpoint Source Contributions.**

| LIVESTOCK COUNTS |        |          |                   |      |       |
|------------------|--------|----------|-------------------|------|-------|
| Beef Cow         | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| 1,125            | 2,2271 | 107      | <5                | 211  | 10    |

**Table 4-58. Summary of Livestock Count Estimates in Subwatershed 051302060404.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| LIVESTOCK COUNTS |          |        |          |                   |       |       |
|------------------|----------|--------|----------|-------------------|-------|-------|
| County           | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs  | Sheep |
| Montgomery       | 16,051   | 30,959 | 760      | 913               | 1,408 | 107   |
| Robertson        | 22,502   | 47,887 | 3,478    | 31                | 6,982 | 279   |

**Table 4-59. Summary of Livestock Count Estimates in Montgomery and Robertson Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

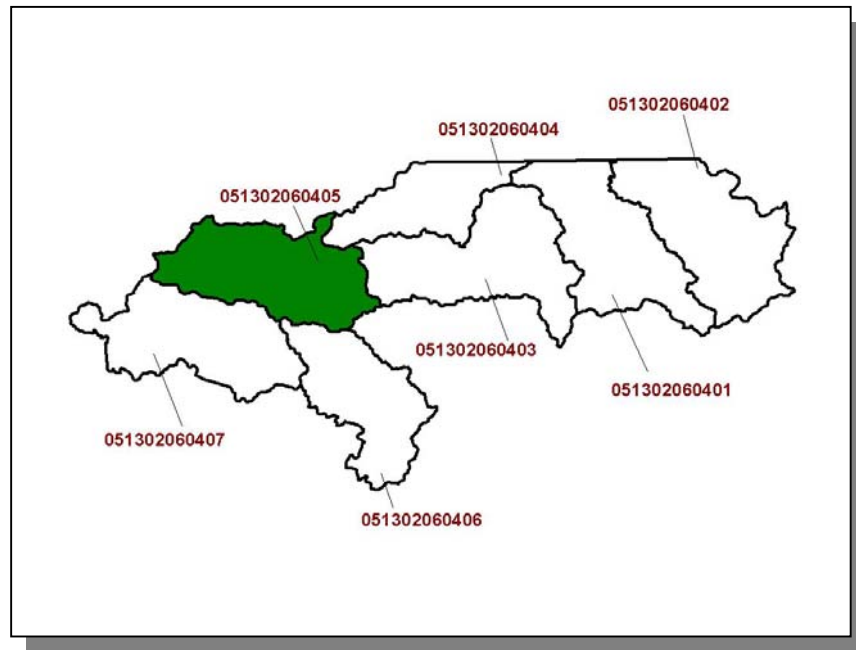
| County     | INVENTORY                       |                                 | REMOVAL RATE                          |                                   |
|------------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
|            | Forest Land<br>(thousand acres) | Timber Land<br>(thousand acres) | Growing Stock<br>(million cubic feet) | Sawtimber<br>(million board feet) |
| Montgomery |                                 |                                 |                                       |                                   |
| Robertson  | 53.0                            | 53.0                            | 2.2                                   | 9.7                               |

**Table 4-60. Forest Acreage and Annual Removal Rates (1987-1994) in Montgomery and Robertson Counties.**

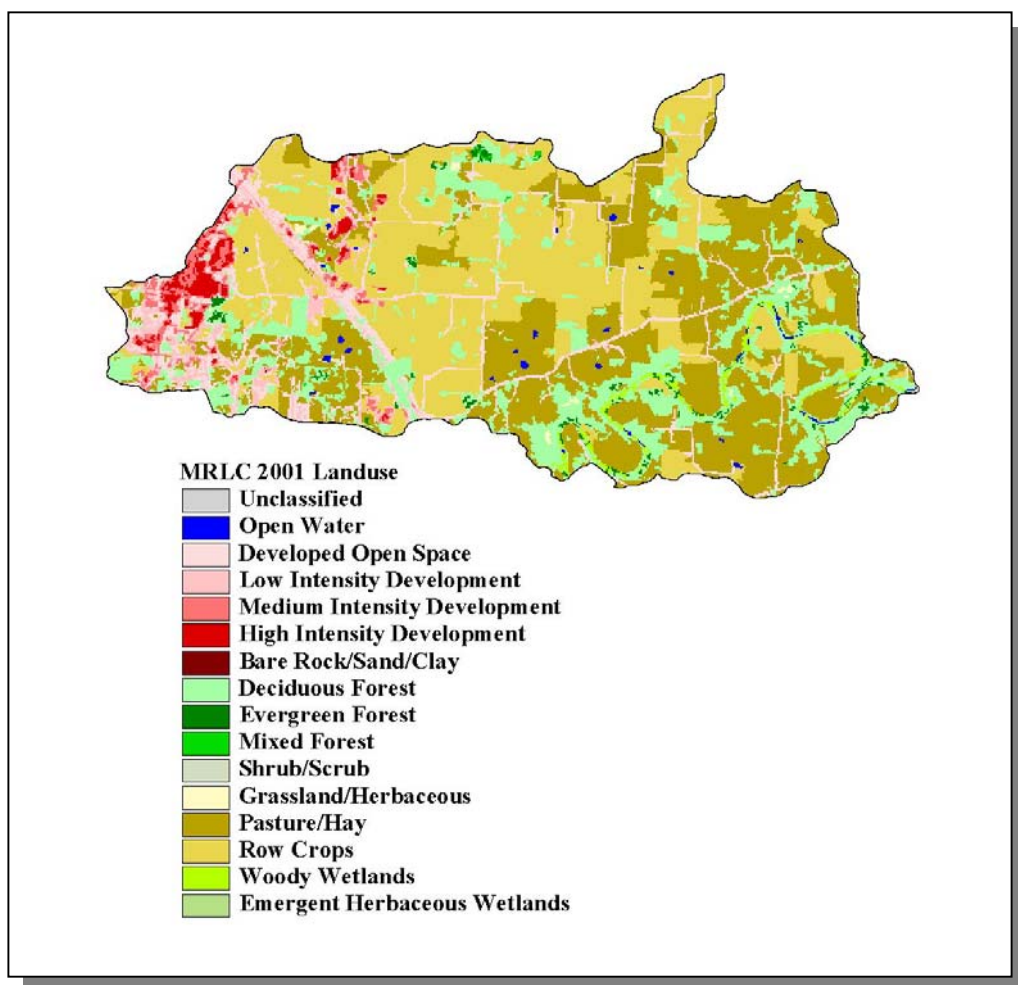
| CROPS                                 | TONS/ACRE/YEAR |
|---------------------------------------|----------------|
| Grass (Pastureland)                   | 0.58           |
| Grass (Hayland)                       | 0.34           |
| Legumes, Grass (Hayland)              | 0.48           |
| Legumes (Hayland)                     | 0.73           |
| Grass, Forbs, Legumes (Mixed Pasture) | 0.47           |
| Corn (Row Crops)                      | 6.33           |
| Soybeans (Row Crops)                  | 7.67           |
| Tobacco (Row Crops)                   | 16.11          |
| Wheat (Close-Grown Cropland)          | 1.68           |
| Other Cropland not Planted            | 9.59           |
| Conservation Reserve Program Lands    | 0.38           |
| Other Land in Farms                   | 0.27           |
| Farmsteads and Ranch Headquarters     | 0.58           |

**Table 4-61. Annual Estimated Total Soil Loss in Subwatershed 051302060404.**

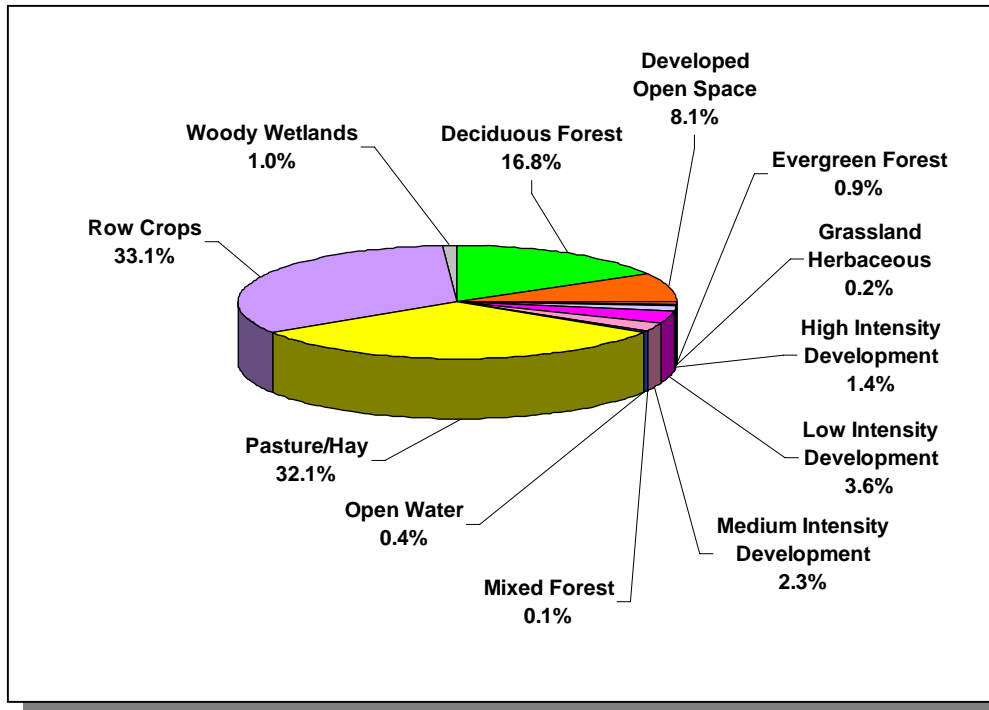
**4.2.C.v. 051302060405 (Red River).**



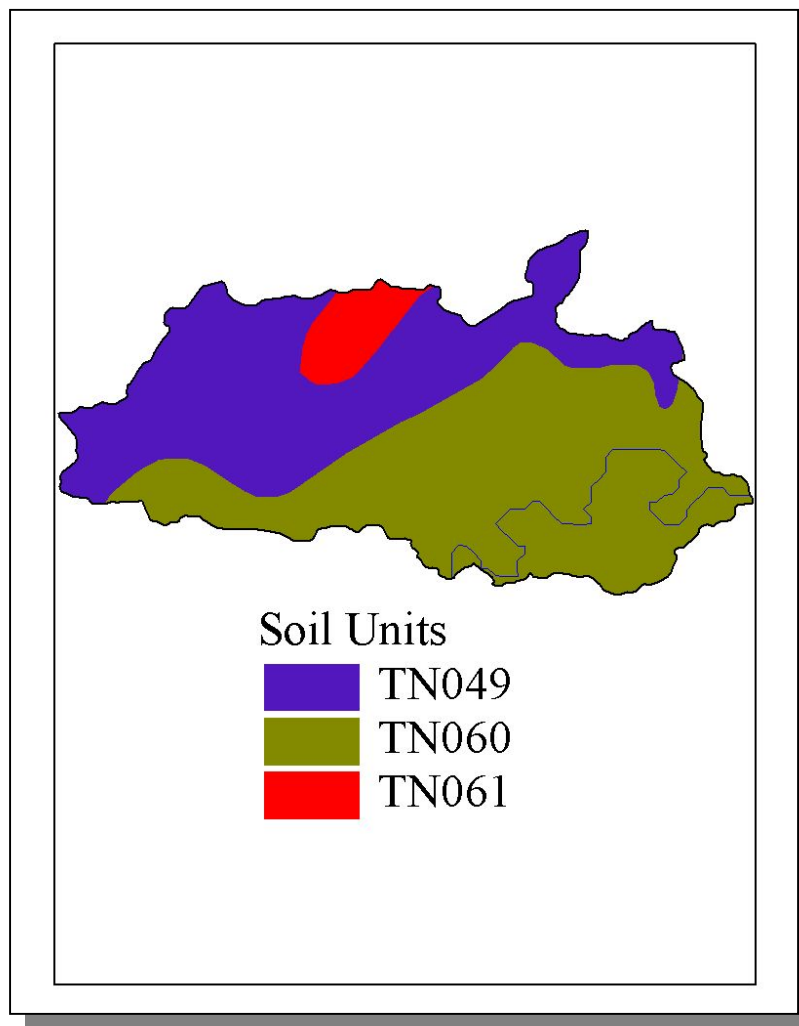
**Figure 4-76. Location of Subwatershed 051302060405.** All Red River HUC-12 subwatershed boundaries in Tennessee are shown for reference.



*Figure 4-77. Illustration of Land Use Distribution in Subwatershed 051302060405.*



**Figure 4-78. Land Use Distribution in Subwatershed 051302060405.** More information is provided in Appendix IV.



**Figure 4-79. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060405.**

| STATSGO<br>MAP UNIT ID | PERCENT<br>HYDRIC | HYDROLOGIC<br>GROUP | PERMEABILITY<br>(in/hour) | SOIL<br>pH | ESTIMATED<br>SOIL TEXTURE | SOIL<br>ERODIBILITY |
|------------------------|-------------------|---------------------|---------------------------|------------|---------------------------|---------------------|
| TN049                  | 0.00              | C                   | 1.30                      | 5.94       | Silty Loam                | 0.34                |
| TN060                  | 5.00              | C                   | 1.30                      | 5.32       | Silty Loam                | 0.39                |
| TN061                  | 50.00             | B                   | 1.30                      | 5.09       | Silty Loam                | 0.42                |

**Table 4-62. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060405.** The definition of “Hydrologic Group” is provided in Appendix IV.

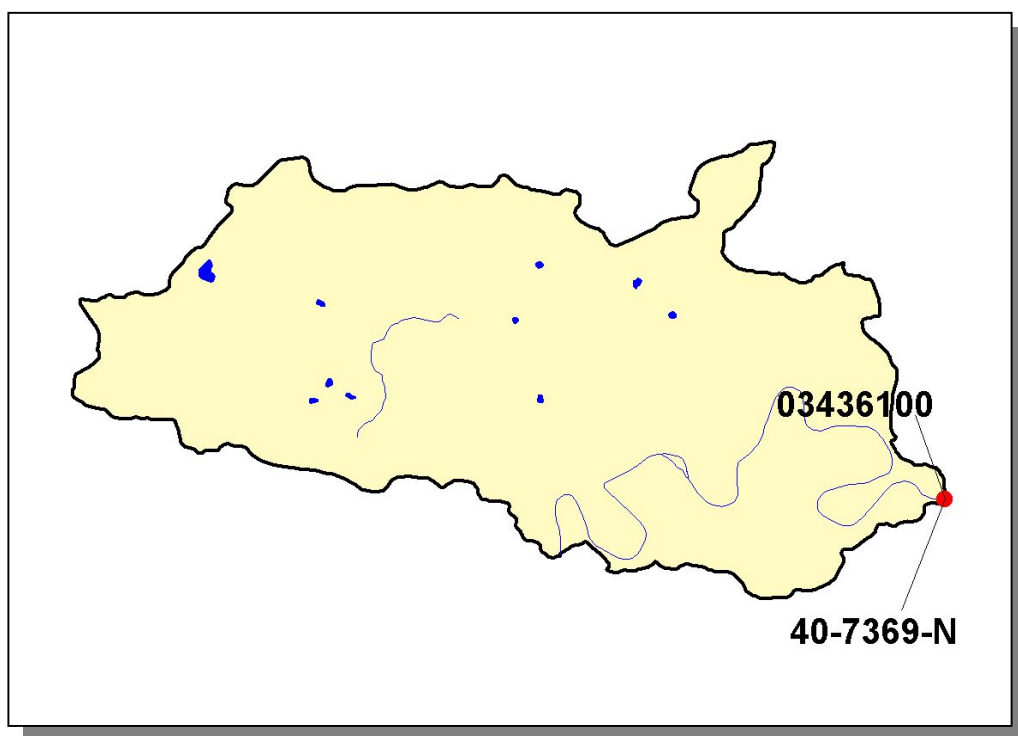
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| County     | COUNTY<br>POPULATION |         |         | Portion of<br>Watershed (%) | ESTIMATED POPULATION<br>IN WATERSHED |       |       | % Change<br>(1990-2000) |
|------------|----------------------|---------|---------|-----------------------------|--------------------------------------|-------|-------|-------------------------|
|            | 1990                 | 1997    | 2000    |                             | 1990                                 | 1997  | 2000  |                         |
| Montgomery | 100,498              | 124,369 | 134,768 | 5.09                        | 5,117                                | 6,333 | 6,862 | 34.1                    |

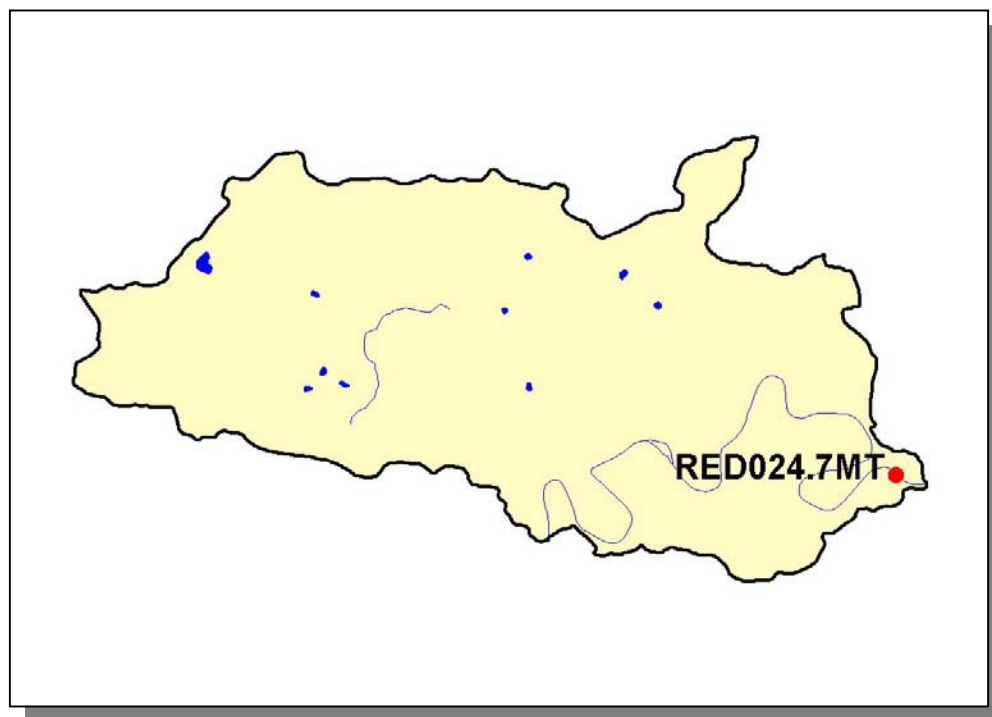
**Table 4-63. Population Estimates in Subwatershed 051302060405.**

| Populated Place | County     | Population | NUMBER OF HOUSING UNITS |              |             |       |
|-----------------|------------|------------|-------------------------|--------------|-------------|-------|
|                 |            |            | Total                   | Public Sewer | Septic Tank | Other |
| Clarksville     | Montgomery | 75,494     | 27,642                  | 23,610       | 3,956       | 76    |

**Table 4-64. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060405.**

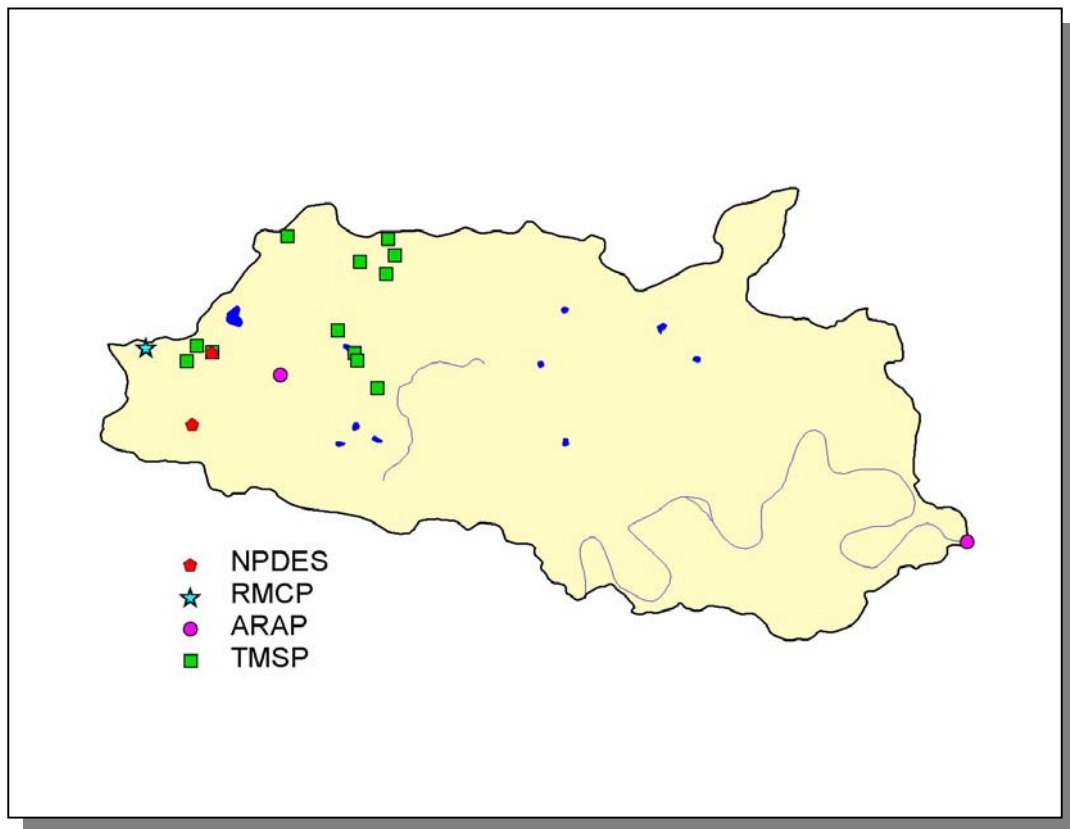


**Figure 4-80. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060405.** More information is provided in Appendix IV.

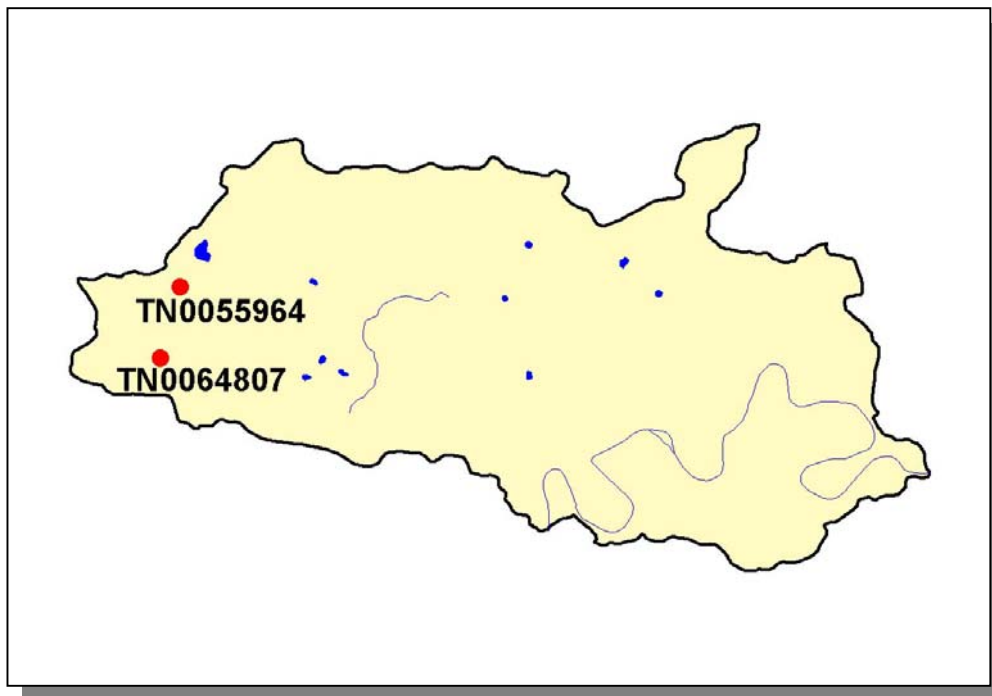


**Figure 4-81. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060405.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

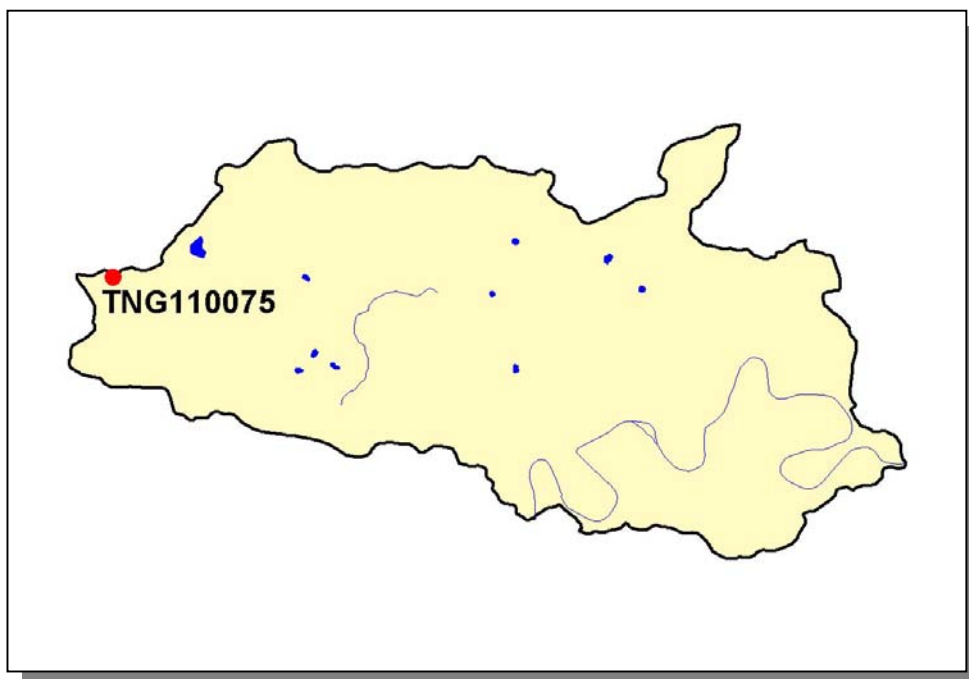
**4.2.C.v.a. Point Source Contributions.**



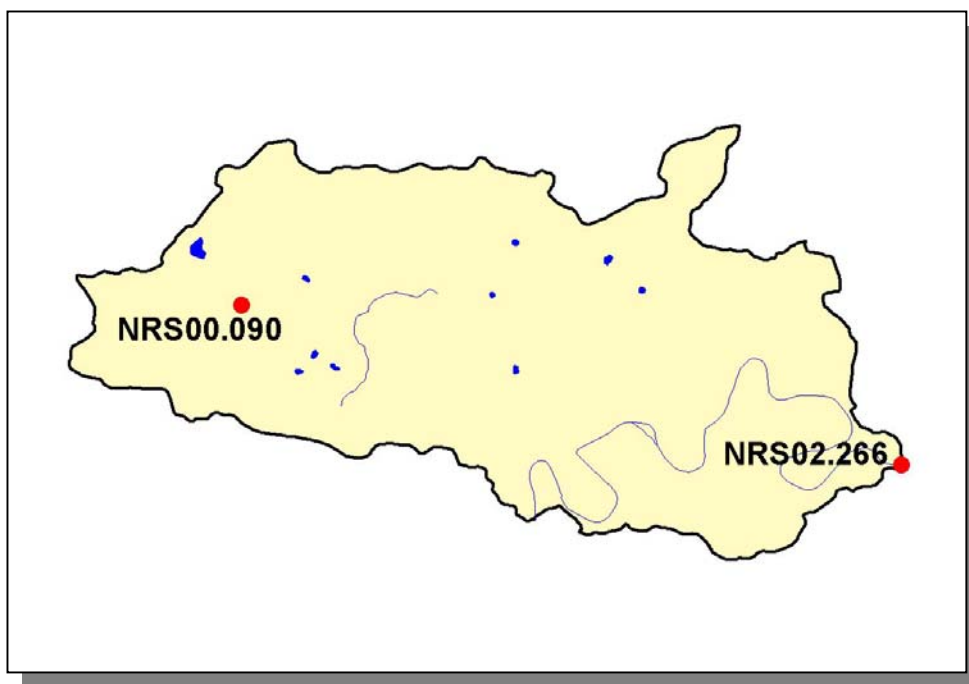
**Figure 4-82. Location of Permits Issued in Subwatershed 051302060405.** More information, including the names of facilities, is provided in Appendix IV.



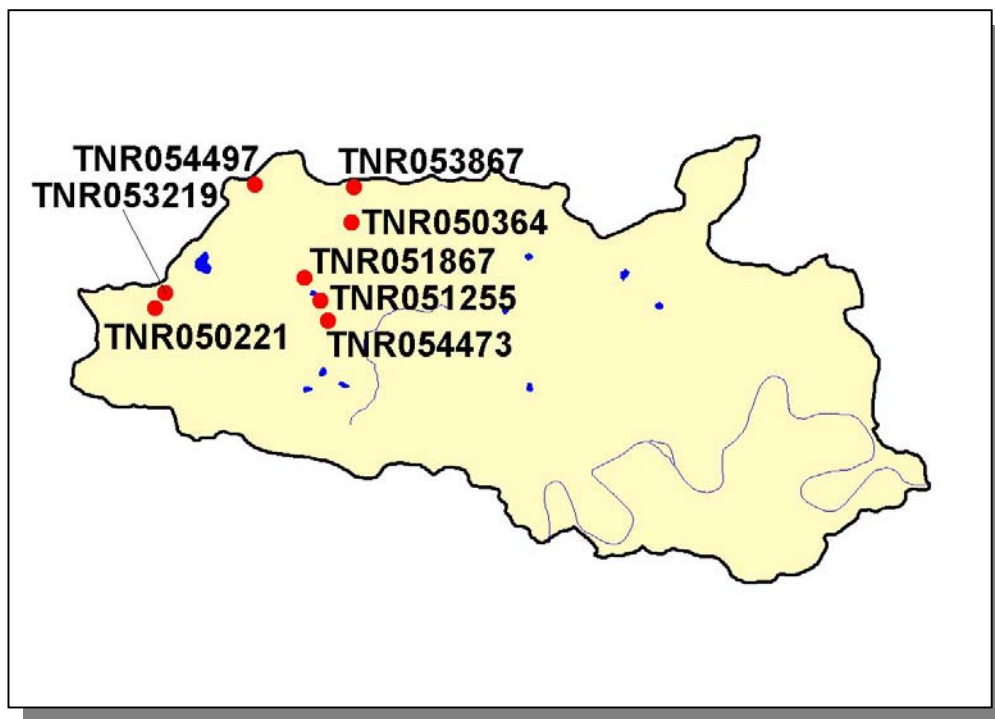
**Figure 4-83. Location of Active NPDES Sites in Subwatershed 051302060405.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-84. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 051302060405.** More information is provided in Appendix IV.



**Figure 4-85. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060405.** More information is provided in Appendix IV.

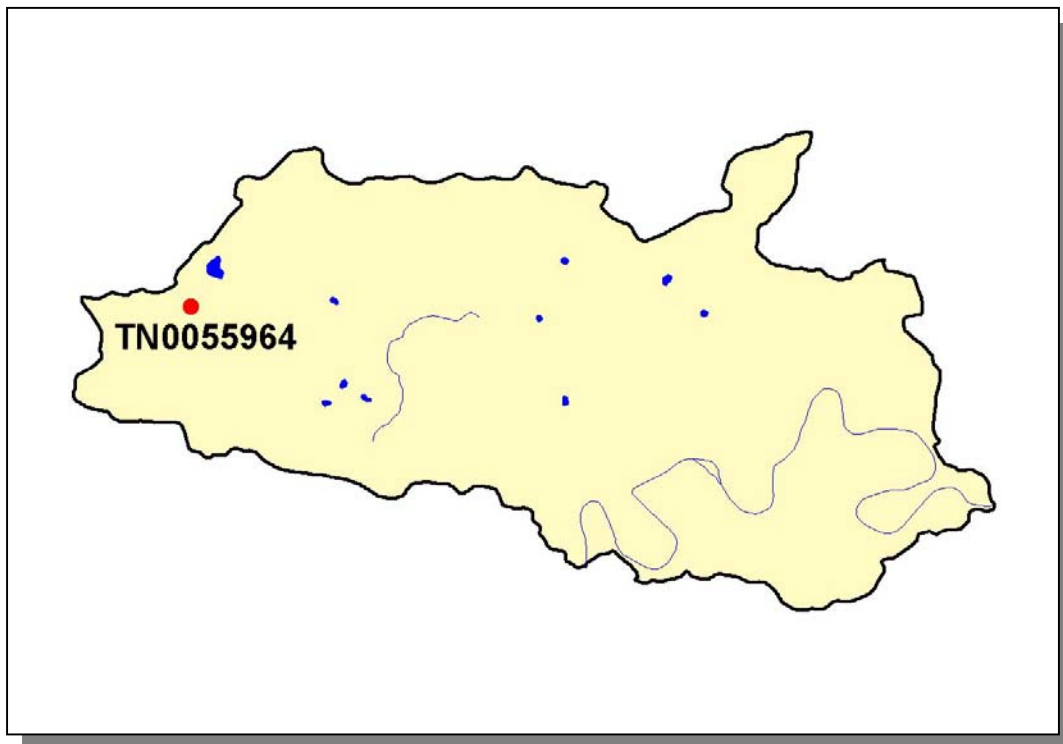


**Figure 4-86. Location of TMSP Sites in Subwatershed 051302060405.** More information, including the names of facilities, is provided in Appendix IV.

**4.2.C.v.a.i. Dischargers to Water Bodies Listed on the 2004 303(d) List**

There is one NPDES facility discharging to water bodies listed on the 2004 303(d) list in Subwatershed 051302060405:

- TN0055964 (Trane Company) discharges to an unnamed tributary to a sink hole and to a wet weather conveyance to Gibbs Creek



**Figure 4-87. Location of NPDES Dischargers to Water Bodies Listed on the 2004 303(d) List in Subwatershed 051302060405.** More information, including the names of facilities, is provided in Appendix IV.

| PERMIT #  | 1Q10 | 3Q10 | 7Q10 | 3Q20 | 30Q5 | QDESIGN |
|-----------|------|------|------|------|------|---------|
| TN0055964 |      |      | 0.0  |      | 0.0  | N/A     |

**Table 4-65. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060405.** Data are in million gallons per day (MGD). N/A, Not Applicable. Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

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| PERMIT #  | OIL and GREASE | Fe | Cu | Zn | pH | FLOW |
|-----------|----------------|----|----|----|----|------|
| TN0055964 | X              | X  | X  | X  | X  | X    |

**Table 4-66. Stormwater Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 2004 303(d) List in Subwatershed 051302060405.** WET, Whole Effluent Toxicity; CBOD<sub>5</sub>, Carbonaceous Biochemical Oxygen Demand (5-Day); Fe, Iron; Cu, Copper; TSS, Total Suspended Solids.

#### 4.2.C.v.b. Nonpoint Source Contributions.

| LIVESTOCK COUNTS |        |          |                   |      |       |
|------------------|--------|----------|-------------------|------|-------|
| Beef Cow         | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| 1,898            | 3,661  | 90       | <5                | 166  | 13    |

**Table 4-67. Summary of Livestock Count Estimates in Subwatershed 051302060405.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| LIVESTOCK COUNTS |          |        |          |                   |       |       |
|------------------|----------|--------|----------|-------------------|-------|-------|
| County           | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs  | Sheep |
| Montgomery       | 16,051   | 30,959 | 760      | 913               | 1,408 | 107   |

**Table 4-68. Summary of Livestock Count Estimates in Montgomery County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

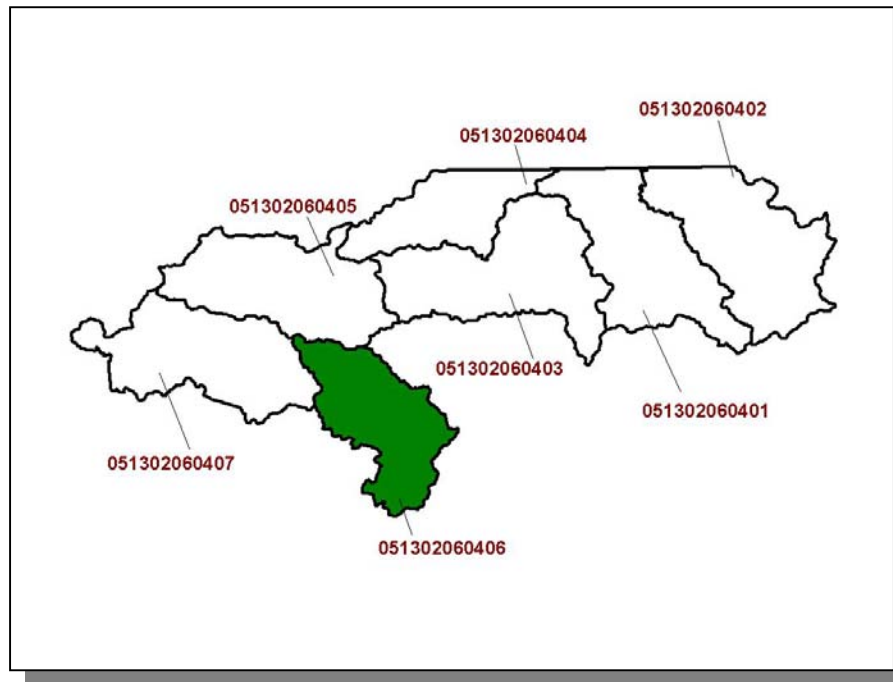
|            | INVENTORY                       |                                 | REMOVAL RATE                          |                                   |
|------------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
| County     | Forest Land<br>(thousand acres) | Timber Land<br>(thousand acres) | Growing Stock<br>(million cubic feet) | Sawtimber<br>(million board feet) |
|            |                                 |                                 |                                       |                                   |
| Montgomery |                                 |                                 |                                       |                                   |

**Table 4-69. Forest Acreage and Annual Removal Rates (1987-1994) in Montgomery County.**

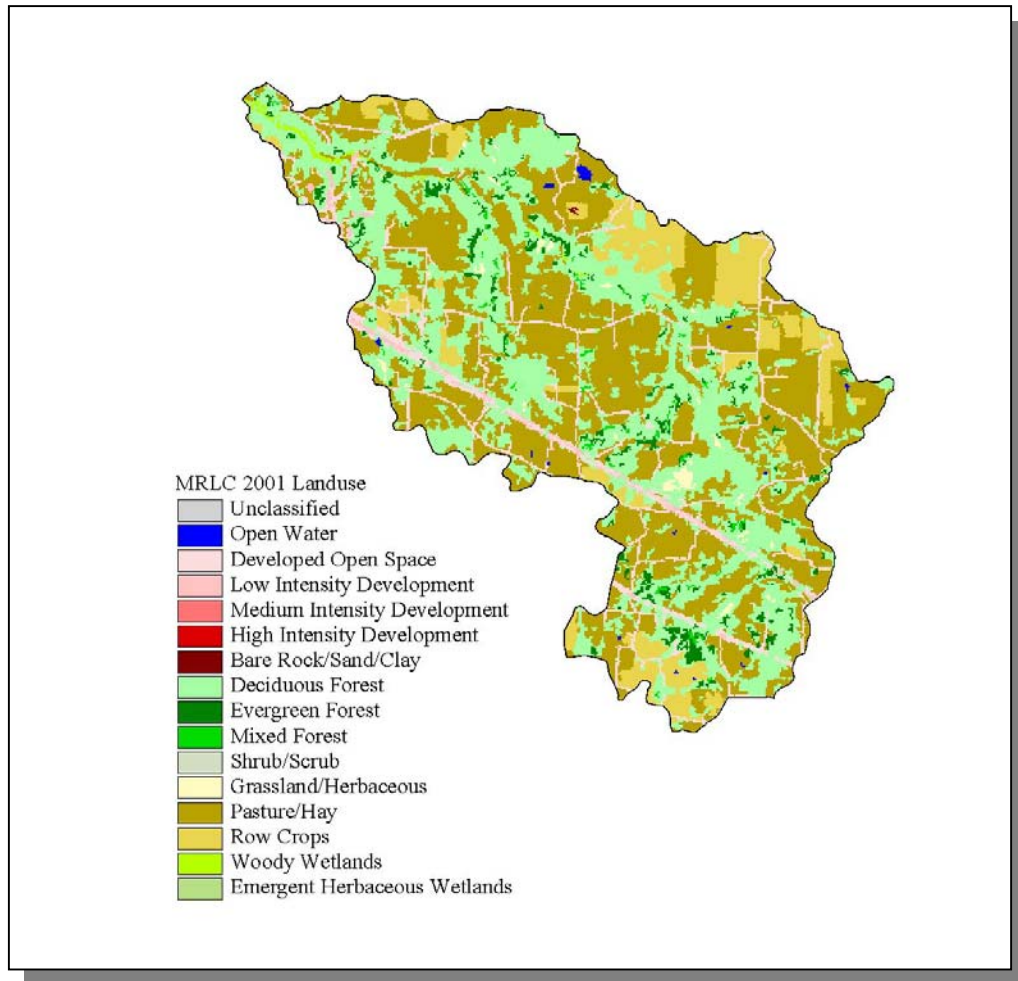
| CROPS                                 | TONS/ACRE/YEAR |
|---------------------------------------|----------------|
| Grass (Pastureland)                   | 0.45           |
| Grass (Hayland)                       | 0.29           |
| Legumes, Grass (Hayland)              | 0.40           |
| Grass, Forbs, Legumes (Mixed Pasture) | 0.55           |
| Corn (Row Crops)                      | 8.04           |
| Soybeans (Row Crops)                  | 4.26           |
| Tobacco (Row Crops)                   | 22.25          |
| Conservation Reserve Program Lands    | 0.41           |
| Farmsteads and Ranch Headquarters     | 0.04           |

**Table 4-70. Annual Estimated Total Soil Loss in Subwatershed 051302060405.**

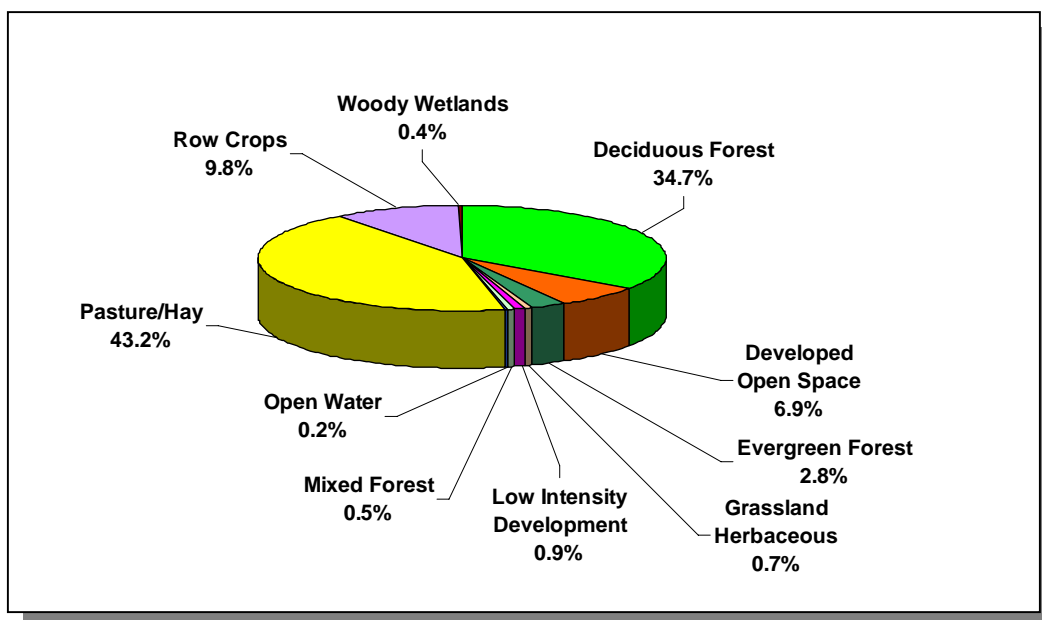
**4.2.C.vi. 051302060406 (Passenger Creek).**



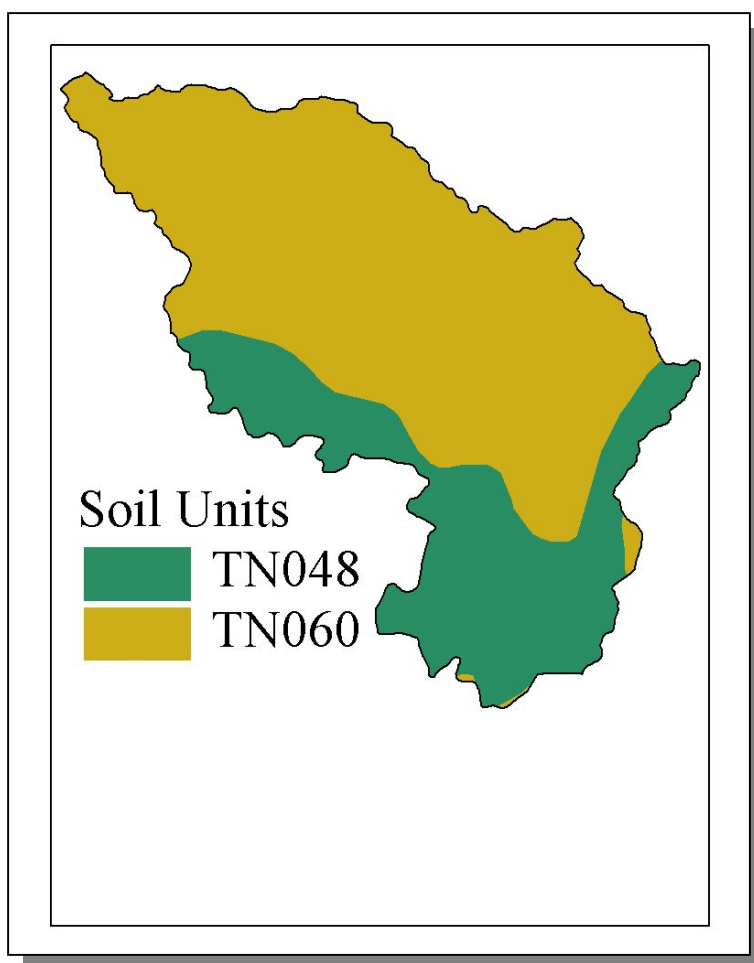
**Figure 4-88. Location of Subwatershed 051302060406.** All HUC-12 subwatershed boundaries are shown for reference.



**Figure 4-89. Illustration of Land Use Distribution in Subwatershed 051302060406.**



**Figure 4-90. Land Use Distribution in Subwatershed 051302060406.** More information is provided in Appendix IV.



*Figure 4-91. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060406.*

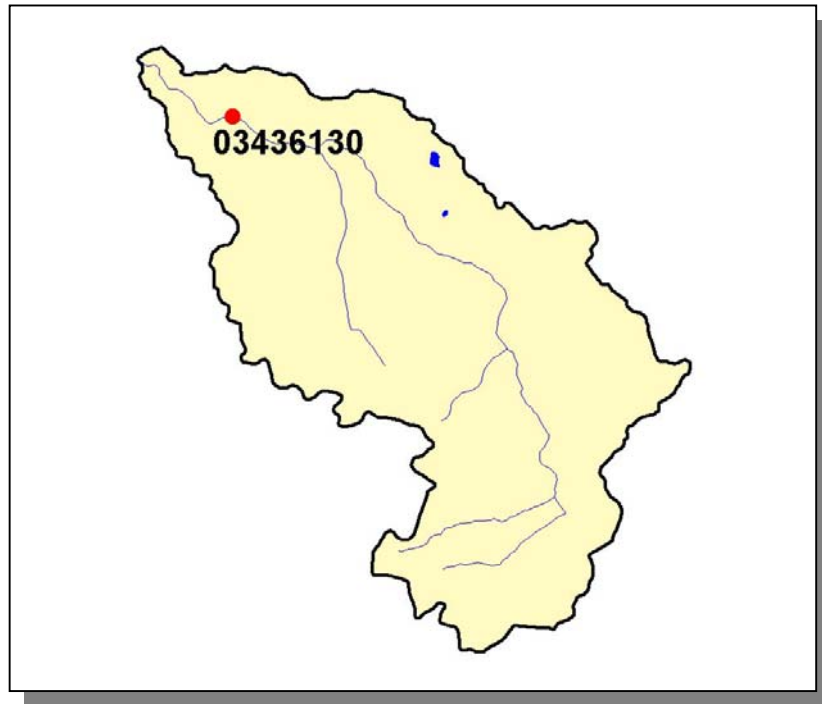
| STATSGO<br>MAP UNIT ID | PERCENT<br>HYDRIC | HYDROLOGIC<br>GROUP | PERMEABILITY<br>(in/hour) | SOIL<br>pH | ESTIMATED<br>SOIL TEXTURE | SOIL<br>ERODIBILITY |
|------------------------|-------------------|---------------------|---------------------------|------------|---------------------------|---------------------|
| TN048                  | 8.00              | B                   | 1.38                      | 5.06       | Silty Loam                | 0.42                |
| TN060                  | 5.00              | C                   | 1.30                      | 5.32       | Silty Loam                | 0.39                |

*Table 4-71. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060406. The definition of "Hydrologic Group" is provided in Appendix IV.*

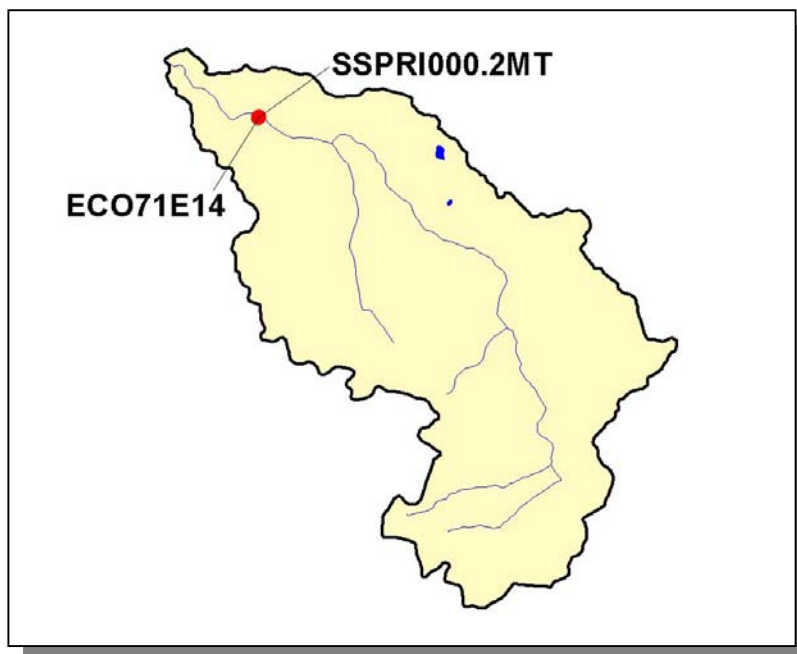
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| County       | COUNTY<br>POPULATION |                |                | Portion of<br>Watershed (%) | ESTIMATED POPULATION<br>IN WATERSHED |              |              | % Change<br>(1990-2000) |
|--------------|----------------------|----------------|----------------|-----------------------------|--------------------------------------|--------------|--------------|-------------------------|
|              | 1990                 | 1997           | 2000           |                             | 1990                                 | 1997         | 2000         |                         |
| Cheatham     | 27,140               | 34,402         | 35,912         | 0.37                        | 100                                  | 127          | 132          | 32.0                    |
| Montgomery   | 100,498              | 124,369        | 134,768        | 3.47                        | 3,492                                | 4,321        | 4,682        | 34.1                    |
| Robertson    | 41,494               | 51,533         | 54,433         | 0.37                        | 152                                  | 189          | 200          | 31.6                    |
| <b>Total</b> | <b>169,132</b>       | <b>210,304</b> | <b>225,113</b> |                             | <b>3,644</b>                         | <b>4,637</b> | <b>5,014</b> | <b>33.9</b>             |

*Table 4-72. Population Estimates in Subwatershed 051302060406.*

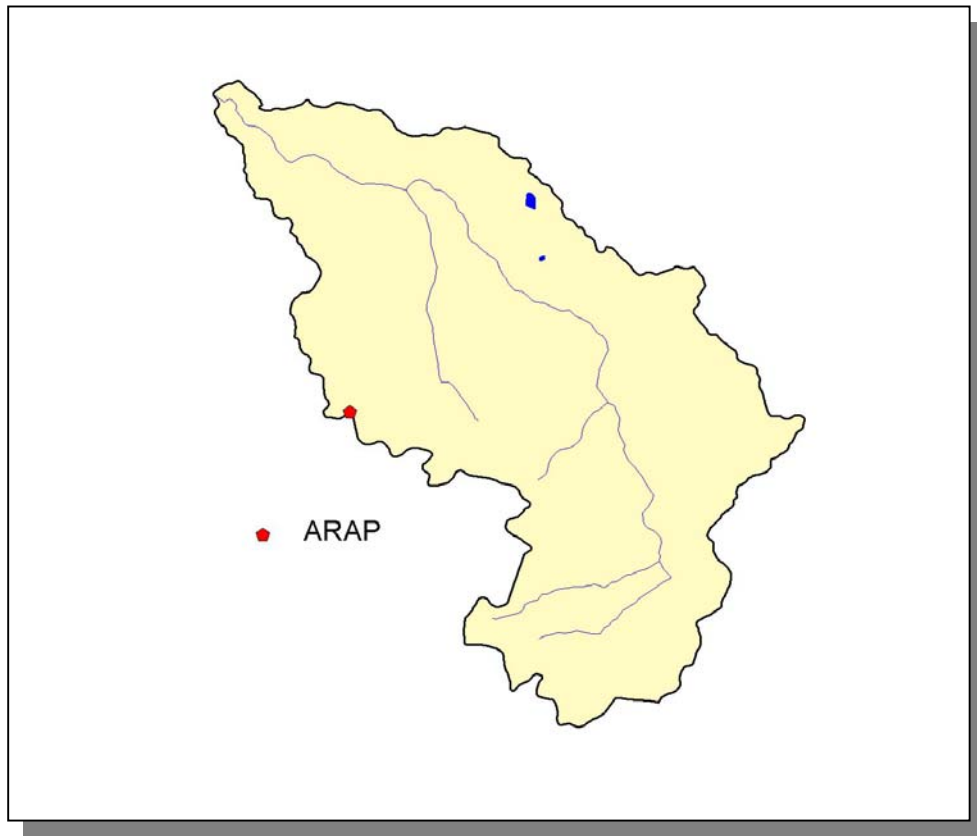


**Figure 4-92. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060406.** More information is provided in Appendix IV.

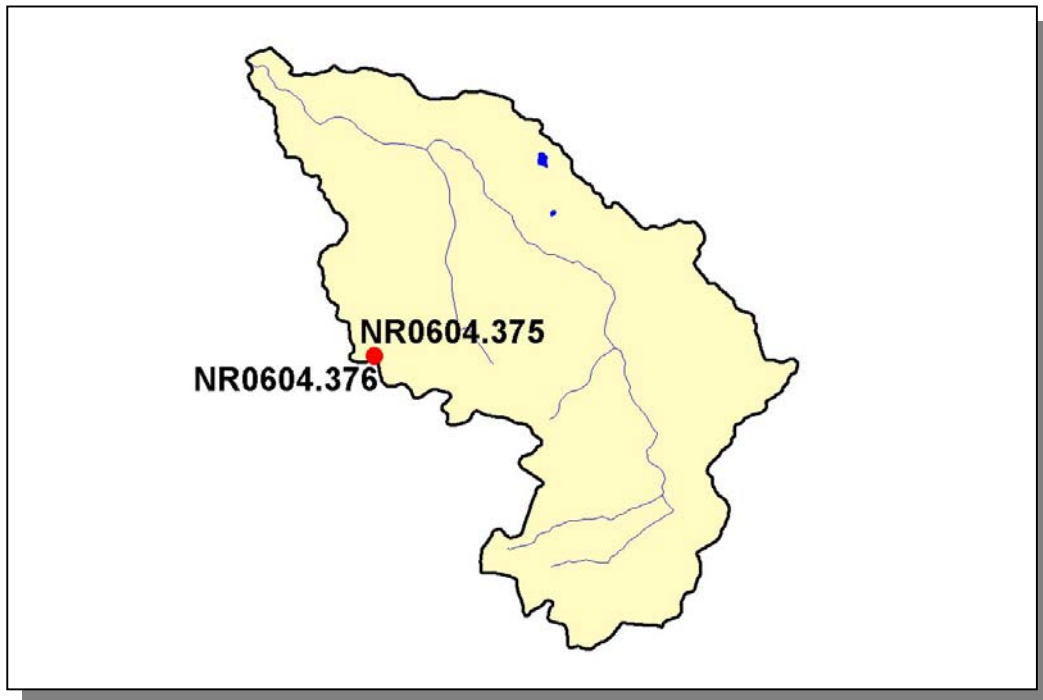


**Figure 4-93. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060406.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

**4.2.C.vi.a. Point Source Contributions.**



**Figure 4-94. Location of Permits Issued in Subwatershed 051302060406.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-95. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060406. More information is provided in Appendix IV.**

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**4.2.C.vi.b. Nonpoint Source Contributions.**

| <b>LIVESTOCK COUNTS</b> |        |          |                   |      |       |
|-------------------------|--------|----------|-------------------|------|-------|
| Beef Cow                | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| 1,225                   | 2,633  | 69       | <5                | 156  | 9     |

**Table 4-73. Summary of Livestock Count Estimates in Subwatershed 051302060406.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| <b>LIVESTOCK COUNTS</b> |          |        |          |                   |       |       |
|-------------------------|----------|--------|----------|-------------------|-------|-------|
| County                  | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs  | Sheep |
| Cheatham                | 0        | 11,429 | 0        | 121               | 1,183 | 0     |
| Montgomery              | 16,051   | 30,959 | 760      | 913               | 1,408 | 107   |
| Robertson               | 22,502   | 47,887 | 3,478    | 31                | 6,982 | 279   |

**Table 4-74. Summary of Livestock Count Estimates in Cheatham, Montgomery, and Robertson Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

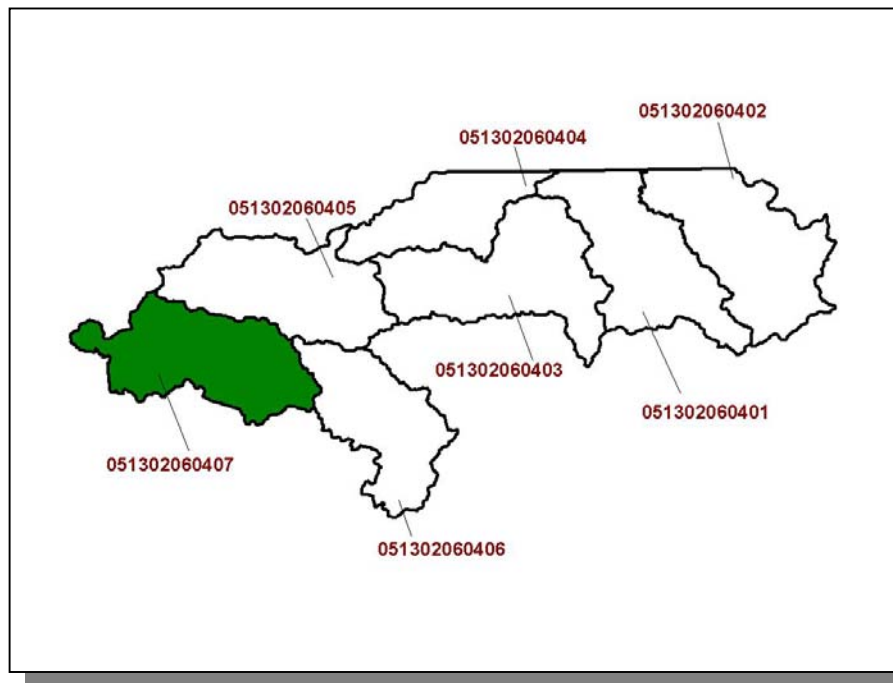
| County     | <b>INVENTORY</b>                |                                 | <b>REMOVAL RATE</b>                   |                                   |
|------------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
|            | Forest Land<br>(thousand acres) | Timber Land<br>(thousand acres) | Growing Stock<br>(million cubic feet) | Sawtimber<br>(million board feet) |
| Cheatham   | 118.2                           | 118.2                           | 2.3                                   | 8.4                               |
| Montgomery |                                 |                                 |                                       |                                   |
| Robertson  | 53.0                            | 53.0                            | 2.2                                   | 9.7                               |

**Table 4-75. Forest Acreage and Annual Removal Rates (1987-1994) in Cheatham, Montgomery, and Robertson Counties.**

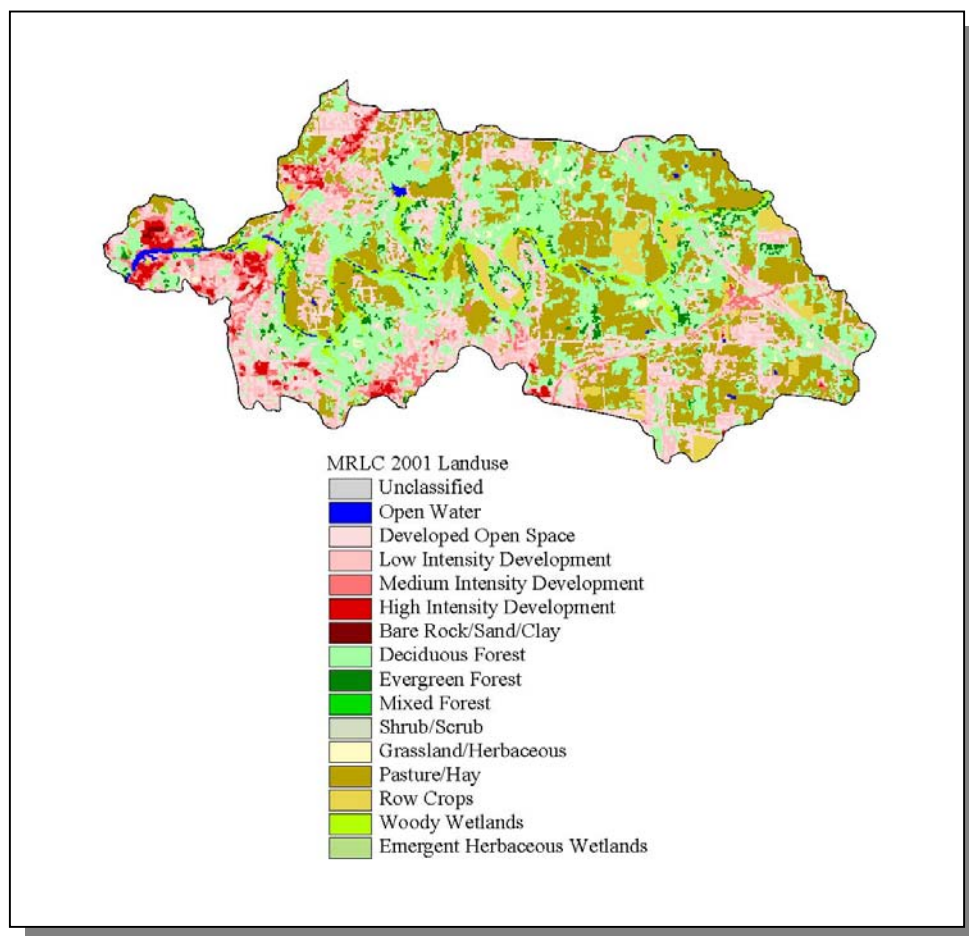
| <b>CROPS</b>                          | <b>TONS/ACRE/YEAR</b> |
|---------------------------------------|-----------------------|
| Grass (Pastureland)                   | 0.48                  |
| Grass (Hayland)                       | 0.30                  |
| Legumes, Grass (Hayland)              | 0.41                  |
| Legumes (Hayland)                     | 0.60                  |
| Grass, Forbs, Legumes (Mixed Pasture) | 0.55                  |
| Corn (Row Crops)                      | 7.83                  |
| Soybeans (Row Crops)                  | 5.00                  |
| Tobacco (Row Crops)                   | 21.35                 |
| Wheat (Close-Grown Cropland)          | 1.68                  |
| Other Cropland not Planted            | 6.11                  |
| Conservation Reserve Program Lands    | 0.41                  |
| Other Land in Farms                   | 0.27                  |
| Farmsteads and Ranch Headquarters     | 0.12                  |

**Table 4-76. Annual Estimated Total Soil Loss in Subwatershed 051302060406.**

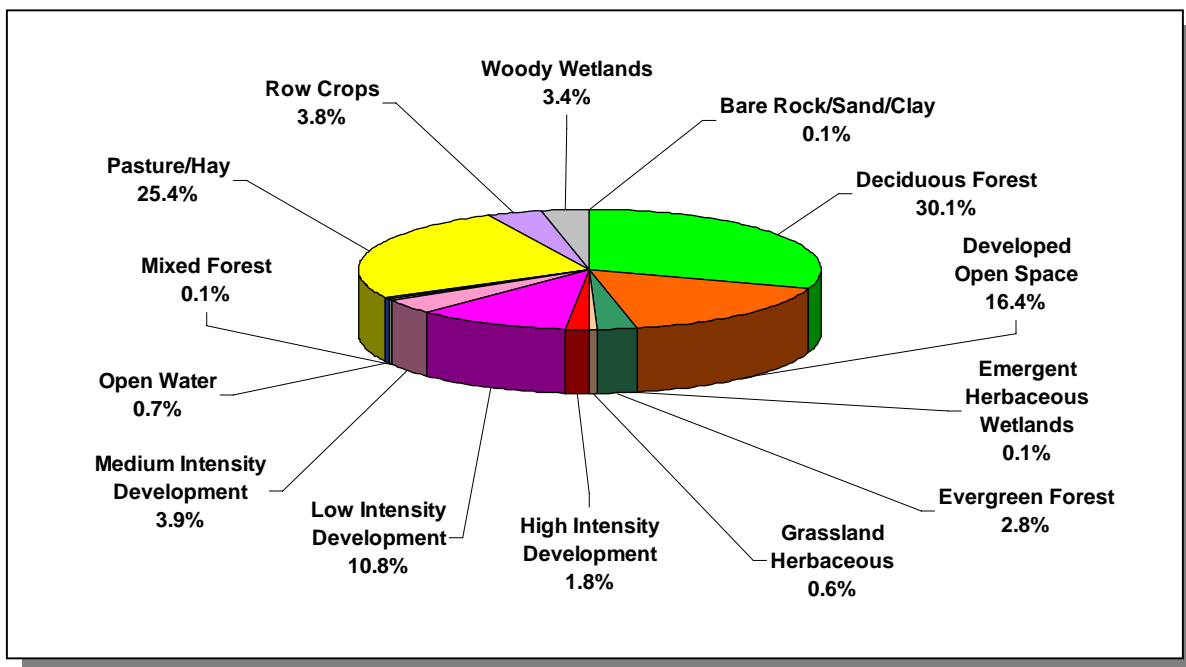
**4.2.C.vii. 051302060407 (Red River).**



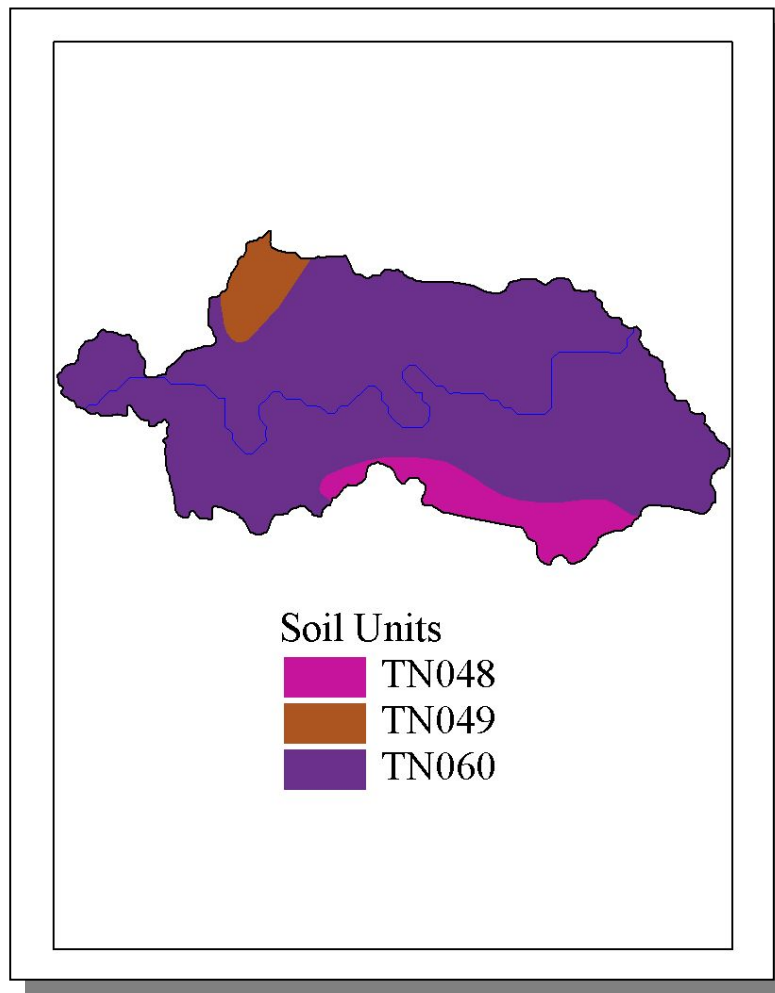
**Figure 4-96. Location of Subwatershed 051302060407.** All Red River HUC-12 subwatershed boundaries in Tennessee are shown for reference.



**Figure 4-97. Illustration of Land Use Distribution in Subwatershed 051302060407.**



**Figure 4-98. Land Use Distribution in Subwatershed 051302060407.** More information is provided in Appendix IV.



**Figure 4-99. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060407.**

| STATSGO<br>MAP UNIT ID | PERCENT<br>HYDRIC | HYDROLOGIC<br>GROUP | PERMEABILITY<br>(in/hour) | SOIL<br>pH | ESTIMATED<br>SOIL TEXTURE | SOIL<br>ERODIBILITY |
|------------------------|-------------------|---------------------|---------------------------|------------|---------------------------|---------------------|
| TN048                  | 8.00              | B                   | 1.38                      | 5.06       | Silty Loam                | 0.42                |
| TN049                  | 0.00              | C                   | 1.30                      | 5.94       | Silty Loam                | 0.34                |
| TN060                  | 5.00              | C                   | 1.30                      | 5.32       | Silty Loam                | 0.39                |

**Table 4-77. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 051302060407.** The definition of "Hydrologic Group" is provided in Appendix IV.

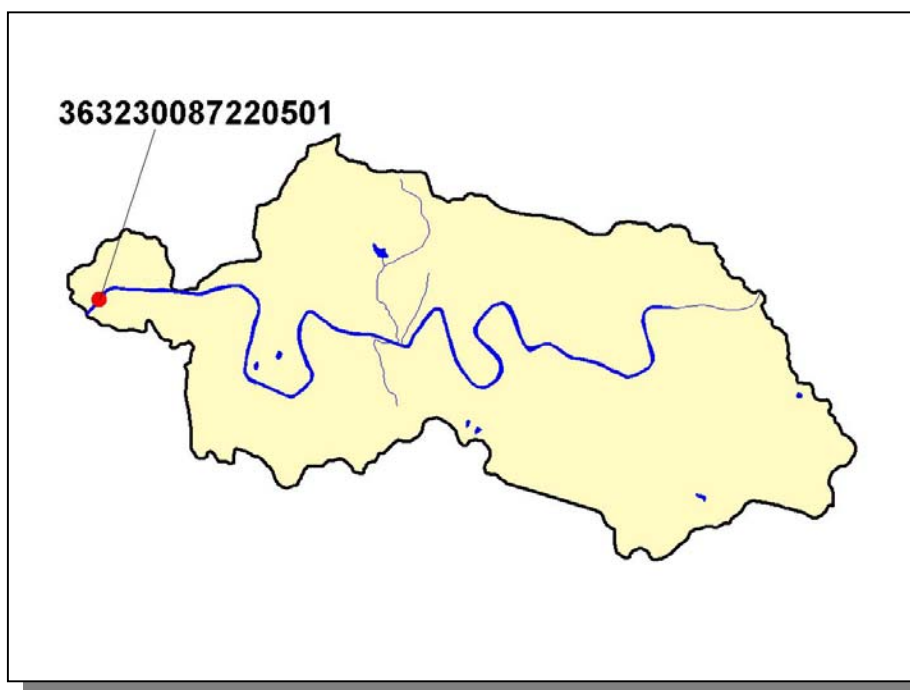
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| County     | COUNTY POPULATION |         |         | Portion of Watershed (%) | ESTIMATED POPULATION IN WATERSHED |       |       | % Change (1990-2000) |
|------------|-------------------|---------|---------|--------------------------|-----------------------------------|-------|-------|----------------------|
|            | 1990              | 1997    | 2000    |                          | 1990                              | 1997  | 2000  |                      |
| Montgomery | 100,498           | 124,369 | 134,768 | 5.04                     | 5,067                             | 6,271 | 6,795 | 34.1                 |

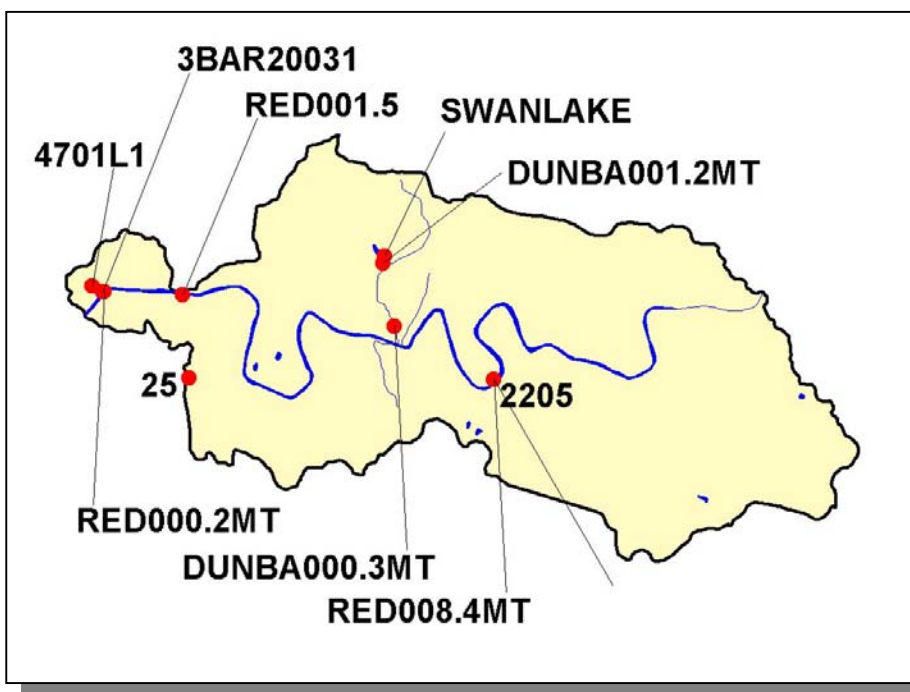
**Table 4-78. Population Estimates in Subwatershed 051302060407.**

|                 |            |            | NUMBER OF HOUSING UNITS |              |             |       |
|-----------------|------------|------------|-------------------------|--------------|-------------|-------|
| Populated Place | County     | Population | Total                   | Public Sewer | Septic Tank | Other |
| Clarksville     | Montgomery | 75,494     | 27,642                  | 23,610       | 3,956       | 76    |

**Table 4-79. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 051302060407.**

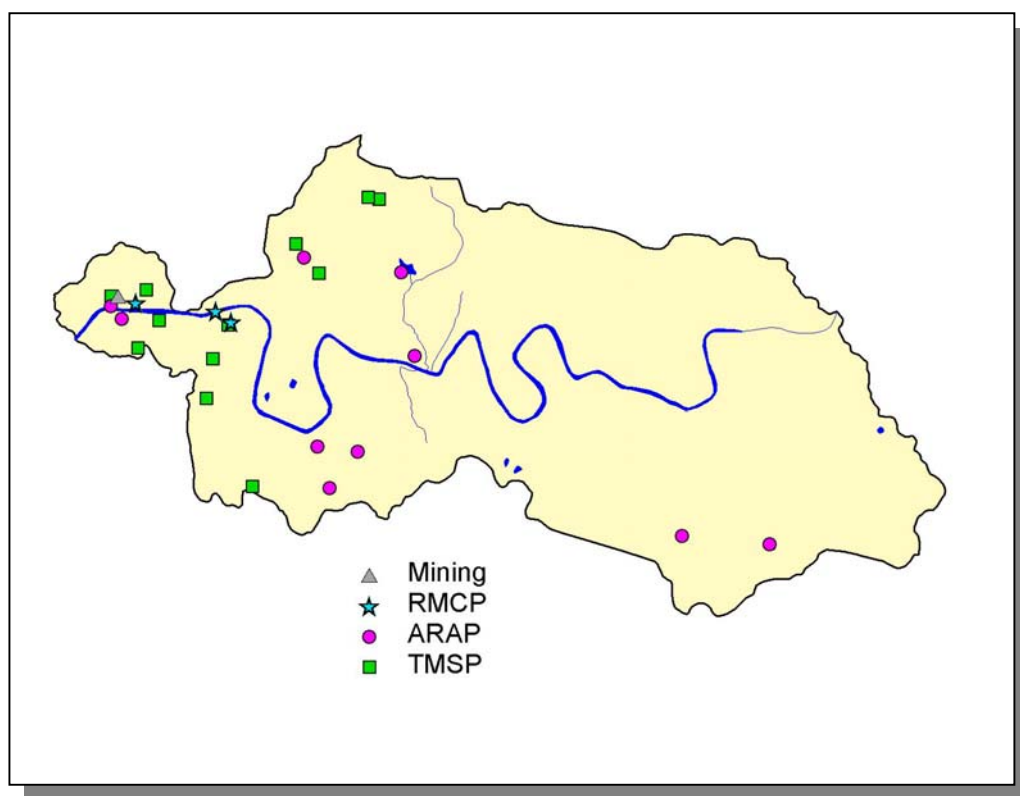


**Figure 4-100. Location of Historical Streamflow Data Collection Sites in Subwatershed 051302060407.** More information is provided in Appendix IV.

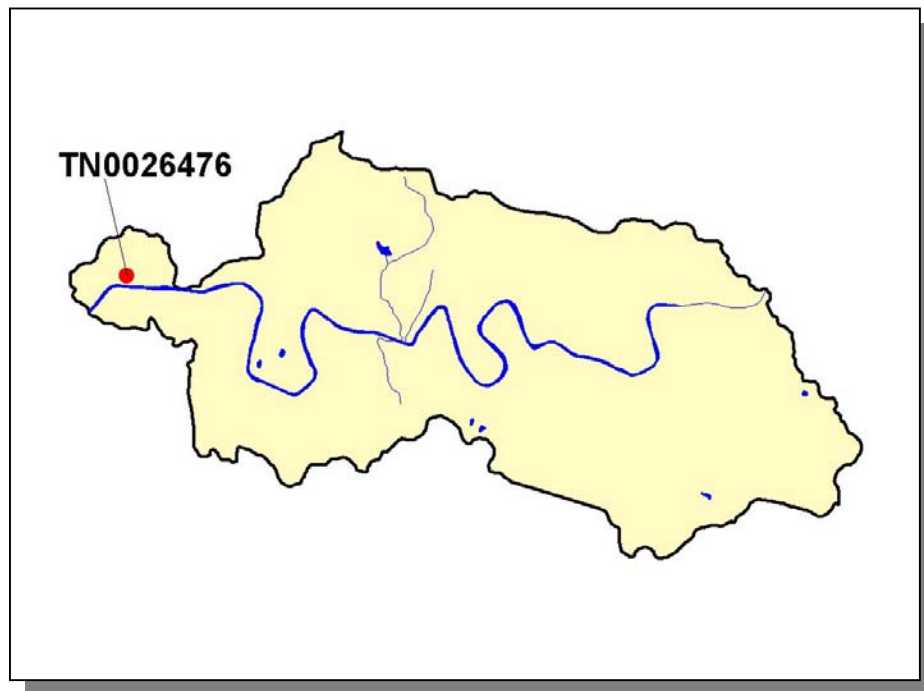


**Figure 4-101. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 051302060407.** More information, including site names and locations, and station numbers for sites located in the watershed outside of Tennessee, is provided in Appendix IV.

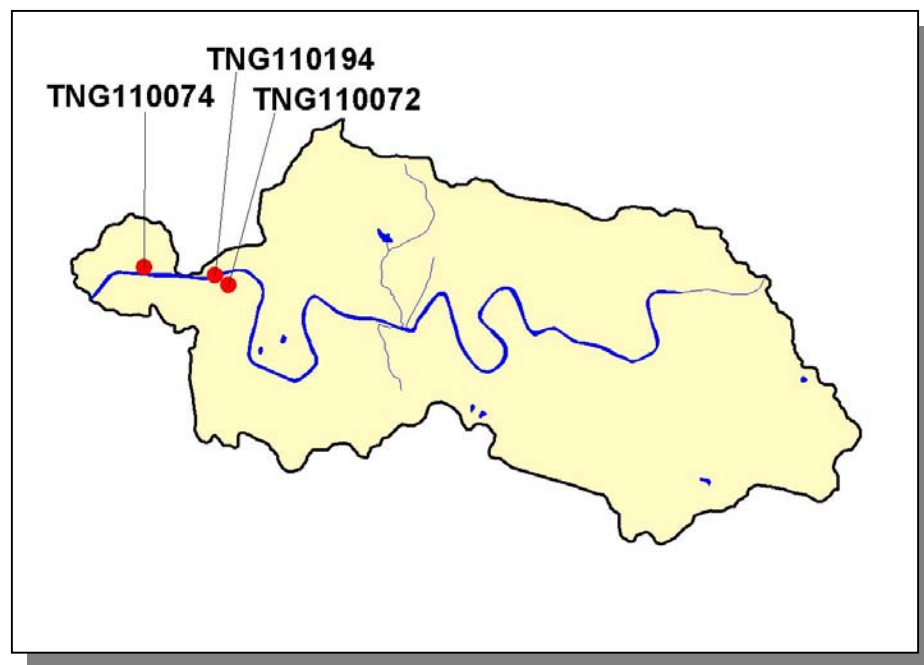
**4.2.C.vii.a. Point Source Contributions.**



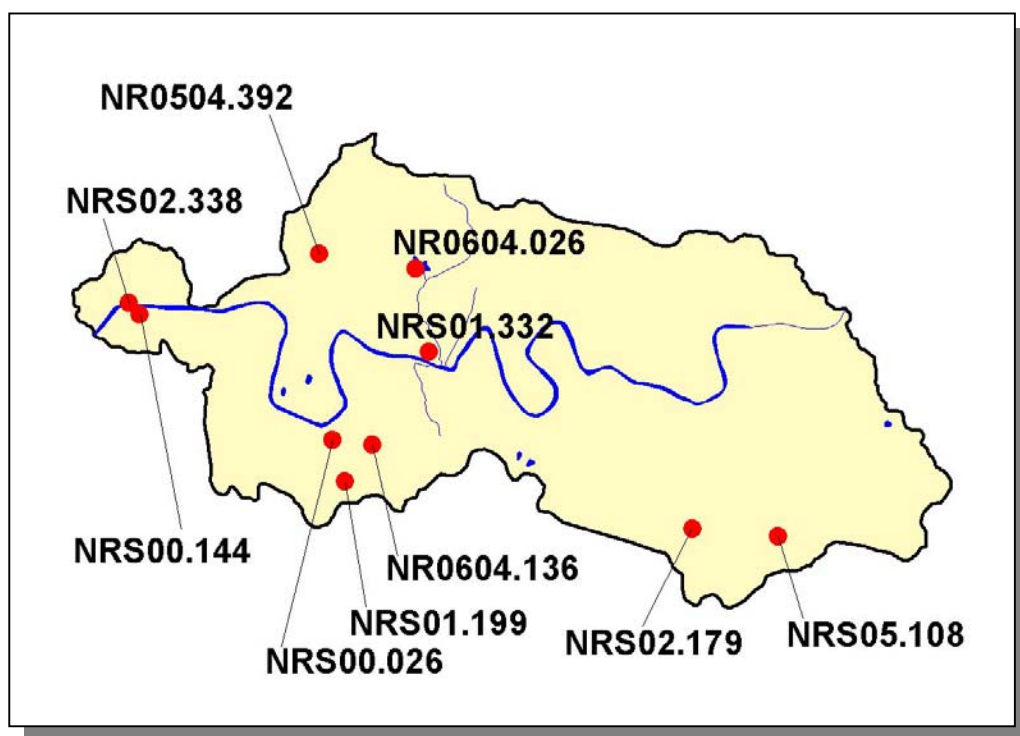
**Figure 4-102. Location of Permits Issued in Subwatershed 051302060407.** More information, including the names of facilities, is provided in Appendix IV.



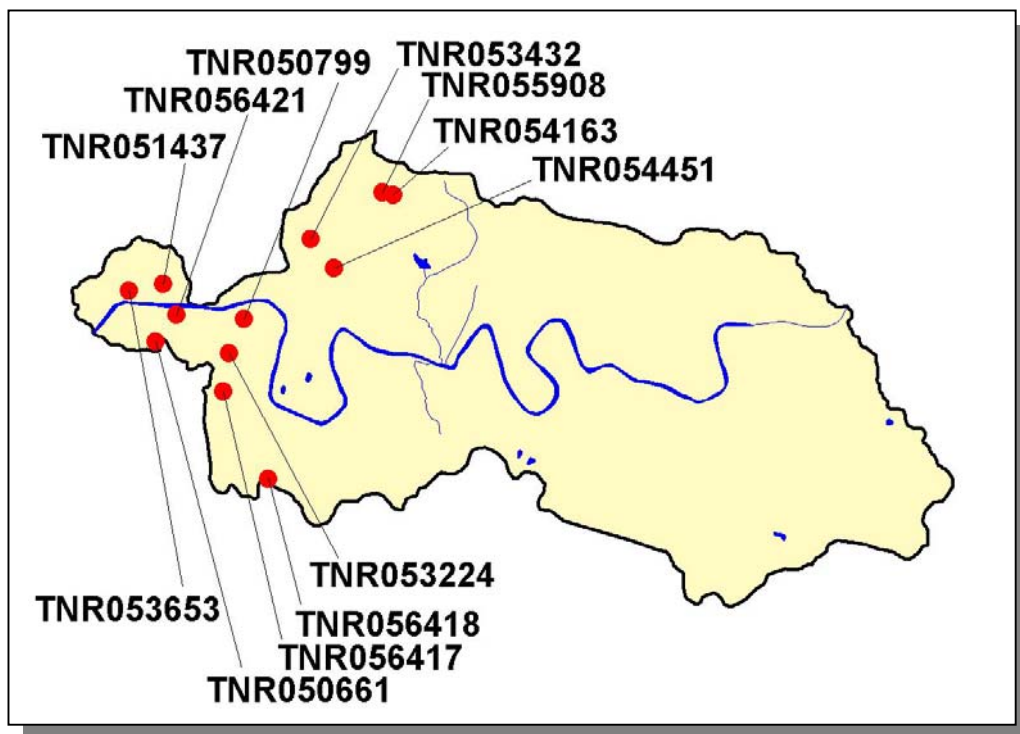
**Figure 4-103. Location of Active Mining Sites in Subwatershed 051302060407.** More information, including the names of mining operations, is provided in Appendix IV.



**Figure 4-104. Location of Ready Mix Concrete Plants (RMCP) in Subwatershed 051302060407.** More information is provided in Appendix IV.



**Figure 4-105. Location of Aquatic Resource Alteration Permit (ARAP) Sites (Individual Permits) in Subwatershed 051302060407.** More information is provided in Appendix IV.



**Figure 4-106. Location of TMSP Sites in Subwatershed 051302060407.** More information, including the names of facilities, is provided in Appendix IV.

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**4.2.C.vii.b. Nonpoint Source Contributions.**

| LIVESTOCK COUNTS |        |          |                   |      |       |
|------------------|--------|----------|-------------------|------|-------|
| Beef Cow         | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| 873              | 1,683  | 41       | <5                | 77   | 6     |

**Table 4-80. Summary of Livestock Count Estimates in Subwatershed 051302060407.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| LIVESTOCK COUNTS |          |        |          |                   |       |       |
|------------------|----------|--------|----------|-------------------|-------|-------|
| County           | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs  | Sheep |
| Montgomery       | 16,051   | 30,959 | 760      | 913               | 1,408 | 107   |

**Table 4-81. Summary of Livestock Count Estimates in Montgomery County.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

|            | INVENTORY                       |                                 | REMOVAL RATE                          |                                   |
|------------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
| County     | Forest Land<br>(thousand acres) | Timber Land<br>(thousand acres) | Growing Stock<br>(million cubic feet) | Sawtimber<br>(million board feet) |
|            |                                 |                                 |                                       |                                   |
| Montgomery |                                 |                                 |                                       |                                   |

**Table 4-82. Forest Acreage and Annual Removal Rates (1987-1994) in Montgomery County.**

| CROPS                                 | TONS/ACRE/YEAR |
|---------------------------------------|----------------|
| Grass (Pastureland)                   | 0.45           |
| Grass (Hayland)                       | 0.29           |
| Legumes, Grass (Hayland)              | 0.40           |
| Grass, Forbs, Legumes (Mixed Pasture) | 0.55           |
| Corn (Row Crops)                      | 8.04           |
| Soybeans (Row Crops)                  | 4.26           |
| Tobacco (Row Crops)                   | 22.25          |
| Conservation Reserve Program Lands    | 0.41           |
| Farmsteads and Ranch Headquarters     | 0.04           |

**Table 4-83. Annual Estimated Total Soil Loss in Subwatershed 051302060407.**